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Alaska Department of Fish and Game
Division of Commercial Fisheries
333 Raspberry Road
Anchorage, Alaska 99518

July 2002

Subsistence and Personal Use Salmon Harvests in the Alaska Portion of the Yukon River Drainage, 2001

by

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and

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ABSTRACT

The Yukon Area is defined to include all waters of Alaska within the Yukon River drainage and all coastal waters of Alaska from Point Romanof southward to the Naskonat Peninsula. To estimate the subsistence salmon harvest from villages in the non-permitted areas, the department conducts an annual voluntary survey program. The 2001 survey program used postseason household interviews, subsistence and personal use permits and subsistence harvest calendars. Surveyors contacted approximately 900 households in the surveyed villages throughout the Yukon Area in 2001. Classical stratified random sampling methods were used to estimate the average number of fish caught by each of the five defined use groups in each community. This method was used to estimate the total number of fish caught by community, district and the Yukon Area. Approximately 56,000 chinook, 72,300 summer chum, 35,700 fall chum, 22,200 coho salmon and 117,700 other fish (pink salmon, whitefish, sheefish and northern pike) were harvested throughout the Yukon Area including coastal communities. The Yukon River subsistence harvest, excluding the coastal communities of Hooper Bay and Scammon Bay was approximately 53,100 chinook, 58,400 summer chum, 35,200 fall chum and 21,700 coho salmon. These counts were extrapolated from numbers collected from over 900 households (71% of the total selected to be surveyed), and 392 returned permits (88% of issued permits). The most common gear type used throughout the Yukon Area were set gillnets (58%) followed by drift gillnets (35%) fish wheels (6%) and other gear (1%). Salmon were harvested throughout the Yukon Area, with the largest harvests occurring in District 2 for chinook and summer chum salmon and in Subdistrict 5-B for fall chum and coho salmon. Approximately 300 households reported feeding an estimated 43,550 salmon to 6,000 dogs.

KEY WORDS: Yukon, subsistence, chum salmon, chinook salmon, whitefish, sheefish, personal use, northern pike

INTRODUCTION

The Yukon Area is defined to include all waters of Alaska within the Yukon River drainage and all coastal waters of Alaska from Point Romanof southward to the Naskonat Peninsula (Figure 1). For management purposes, the Yukon Area is divided into seven districts and ten subdistricts. The Lower Yukon Area consists of the coastal waters of the Yukon Area and the Yukon River drainage from its mouth to Old Paradise Village, and is composed of Districts 1, 2 and 3. The Upper Yukon Area consists of the Yukon River drainage upstream of Old Paradise Village to the Canadian border and is divided into Districts 4, 5 and 6. The Coastal District includes the remainder of coastal Yukon Area waters not included in District 1.

Five species of Pacific salmon are found in the Yukon River drainage: chinook *Oncorhynchus tshawytscha*, chum *O. keta*, coho *O. kitsutch*, pink *O. gorbusch*, and sockeye *O. nerka* salmon. Chinook, chum and coho salmon compose most of subsistence and personal use harvests. The chum salmon return consists of a two temporally and genetically distinct stocks: early (summer chum) and late (fall chum).

Salmon have long been traditionally harvested on the Yukon River for subsistence use prior to the influence of western cultures. In addition to human consumptive uses, salmon are fed to dogs, which are used for recreation, transportation and as haul animals. Today the practice of keeping sled dogs is more common in the Upper Yukon Area than in the Lower Yukon Area. A gradual reduction in the need for salmon as dog food was seen around 1930 when the airplane began replacing the sled dog as a primary mail and supply carrier, this decline was further accelerated in the 1960's with the introduction of snow machines to Interior Alaska (Anderson 1992). Beginning in the early 1980's, an interest in the recreational use and racing of sled dogs was renewed, thereby increasing the number of subsistence salmon harvested for dog food.

Commercial fishing in the Upper Yukon River began in 1974 (ADF&G 2001). From 1974 through 1977 the sale of roe from subsistence caught salmon was legal. Subsistence harvested salmon or their eggs can no longer be legally bought or sold under the State of Alaska regulations. However, commercially harvested salmon may be retained for subsistence use.

Numerous communities are located in the Yukon River drainage. The residents in these rural communities are primarily of Yupik Eskimo and Athabaskan Indian descent. The 2000 census indicates that the rural (Non-Fairbanks North Star Borough) resident population of the Yukon Area was approximately 13,600 people (U.S. Census Bureau). This was a five percent decline in the total rural Yukon Area population from the 1990 census estimate of 14,300 residents.

Yukon Area subsistence and personal use fishermen use drift gillnets, set gillnets, and fish wheels to harvest salmon. Set gillnets are utilized throughout the Yukon Area, whereas drift gillnets are only allowed from the mouth of the Yukon River to 18 miles below Galena. Although fish wheels are a legal gear type for subsistence fishing throughout the drainage, they are essentially used only in the Upper Yukon Area, where suitable water conditions are common and an ample supply of wood timbers are available for construction.

Subsistence salmon fishing activities in the Yukon Area typically begin in late May and continue through early October. However, salmon fishing in May and October is highly dependent upon river ice conditions. Fishing activities are usually based from a fish camp or a home village. Extended family groups, representing two or more households, often work together to harvest, cut, and preserve salmon for subsistence use. Some households from communities not located along the mainstem Yukon River, such as Shageluk, operate fish camps along the mainstem Yukon River.

Although most subsistence and personal use salmon harvested in the Yukon Area originate from Yukon River drainage stocks, communities within the Coastal District may harvest stocks bound for other areas. A salmon mark-recapture study conducted in marine waters near Hooper Bay in 1986, documented the presence of Norton and Kotzebue Sound salmon stocks in the area (Kerkvliet 1986). The tagging study also showed that 89% of the recovered tagged chum salmon were of Yukon River origin.

Most of the chinook salmon harvested for subsistence use are dried, smoked or frozen for later human consumption. However, small chinook ("jacks"), summer chum, fall chum and coho salmon are primarily harvested to feed dogs in the Upper Yukon Area (Anderson 1992). Most subsistence salmon used for dog food are dried (summer chum salmon) or "cribbed" (frozen in the open air) in the case of fall chum and coho salmon. In the Lower Yukon Area, dogs are often fed scraps that become available during the processing of freshly harvested salmon; relatively few whole fresh salmon are fed to dogs. There is usually little wastage of fish taken for subsistence purposes, although damp weather may cause some drying fish to spoil.

During a commercial fishing season, many Yukon Area residents participate in both commercial and subsistence harvest activities. Additional restrictions on subsistence salmon fishing may be required during a commercial salmon fishing season to assist in the enforcement of commercial fishing regulations. However, during a typical salmon fishing season, substantially more time is allowed for subsistence fishing than for commercial fishing. State regulations dictate that subsistence is the highest priority use of salmon and is a primary consideration in fishery management actions.

In January 2001, the Alaska Board of Fisheries (BOF) modified the State of Alaska fishing regulations by providing a fishing schedule for the subsistence salmon fishery. The BOF judged that this subsistence-fishing schedule should provide a reasonable opportunity for subsistence fishers to obtain an average subsistence harvest during years of normal to below average salmon run strength. The schedule was enacted for two purposes, 1) to provide for a reasonable opportunity for all subsistence fishers within the Alaskan portion of the Yukon River drainage, 2) while improving the quality of the escapement. The schedule contained periods of subsistence closures to reduce the harvest on any one particular segment of the salmon run as it migrates to its spawning grounds.

Documentation of the 2001 Yukon Area subsistence and personal use salmon and non-salmon harvest is essential to effectively manage the fishery. Most subsistence users along the Yukon River drainage are not required to record or report their harvest; therefore the annual survey is the only method of estimating their harvest and use.

METHODS

Survey Interviews

The 2001 survey interview program was designed to provide an estimate of the salmon harvested by subsistence fishing households along the Alaskan portion of the Yukon River drainage. Primary components of the survey program were postseason interviews and follow-up telephone or postal surveys.

A database of Yukon Area households is maintained and updated by using previous years' survey information and information collected from other sources. Knowledgeable individuals in each community are typically contacted to review the department's household list. The department uses various village census lists, telephone and utility lists, as well as the Alaska Permanent Fund Dividend application list. The database is used to determine whether a household will be sampled in the survey.

The database of Yukon Area households located in surveyed communities formed the framework for the stratified random sampling program. Each household in the database was assigned to a subsistence harvest category (strata). These strata were identified by average harvest categories of: *Unknown*, *Do Not Fish*, *Light*, *Medium*, or *Heavy*. In 2001, households with historical harvest information were placed in a harvest category based upon their average annual harvest of salmon from the two recent years in the time period 1995 to 2000. The years of 1998 and 2000 were excluded as a basis for reclassification of households harvest categories because of low returns of salmon and subsequent lower harvests and because of subsistence restrictions implemented during the fall season. If household harvest information was not available for two recent years, the household use group classification was left unchanged. In the Lower Yukon Area, an average harvest of 1 to 200 salmon was considered *Light*, a harvest of 201 to 500 salmon was considered *Medium*, and a harvest greater than 500 salmon was considered *Heavy*. In the Upper Yukon Area, an average harvest of 1 to 100 salmon was considered *Light*, a harvest of 101 to 700 salmon was considered *Medium*, and a harvest greater than 700 salmon was considered *Heavy*.

A stratified random sample (Cochran 1977) of households was drawn from the stratified population. In general, strata sample sizes were established based upon the level of harvest: 100% of the households in the *Unknown*, *Medium* and *Heavy* harvest categories and 30% of the households in the *Light* and *Do Not Fish* harvest categories were identified to be sampled during the 2001 survey. Further, if any stratum sample size obtained using these guidelines contained five or fewer households, the sample size was made equal to the stratum size. All households were sampled in survey communities with 40 or fewer households. The percentage of households sampled was increased to 50% for the *Light* harvest category in Emmonak, Pilot Station, Holy Cross and Tanana.

In 2001, surveyors traveled to 34 Yukon Area village communities from September 6 through October 31 to conduct the postseason interviews. Before conducting survey interviews, surveyors were trained in surveying technique and provided with suggestions of how to get the best information possible from people who may not know the exact number of fish they have harvested or are not used to quantifying fish in numerical terms. In addition, the surveyors were trained in

salmon species identification, as local names for salmon vary throughout the drainage. For example, fishermen in portions of the Upper Yukon Area use the term "chinook" to refer to coho salmon and "king" to refer to chinook salmon. During the postseason interviews, both the surveyors and the surveyed individuals contribute to the quality of the estimate. Surveyors have a responsibility to attempt to contact all the households identified to be surveyed and to ensure that questions are asked consistently and understandably, while fostering a cooperative atmosphere.

Interview questions were designed to provide a quantitative and qualitative assessment of each household's subsistence salmon harvest (Figure 2). Household members were asked questions such as: their total salmon harvest and use (by species) for the season, as well as the gear, and areas fished. To determine distribution of fish within a village, households were asked how many families had fished together and whether the families had been provided any salmon from other households or from the various test fisheries projects. Households were also asked how many salmon were harvested for dog food and whether the household's subsistence needs were met.

The survey questions concentrated on chinook, summer chum, fall chum, and coho salmon, but households were also asked about their harvest of pink salmon and other miscellaneous non-salmon species. Reported harvests of whitefish *Coregonus spp.*, northern pike *Esox lucius*, and sheefish *Stenodus leucichthys* were expanded to obtain estimates of total harvests for surveyed communities. The reported harvests of other non-salmon species are not expanded because of the limited information that is usually obtained. Survey participants were given a small thank you gift for participating in the survey after the interview was completed.

Yukon Area households were stratified according to household salmon *harvests* and not based on household *use*. However, an estimate of total salmon use was generated from the various components of the survey questions. Estimated use includes salmon harvested and used by that household as well as fish received from other individuals or test fisheries projects. The use of salmon is addressed in the post-season survey primarily as a method of estimating the use of salmon from commercial harvests or carcasses available from commercial salmon roe fisheries. In 2001 there was no commercial fishing.

Telephone interviews were attempted for those households who were identified to be surveyed, but were not contacted by surveyors while in the community. Survey questionnaires, including a postage-paid return envelope, were mailed to households that were not contacted by personal or telephone interviews.

Calendar

Prior to the start of the salmon fishing season, the department conducted two mass mailings and distributed subsistence harvest calendars to approximately 1,300 Lower Yukon and 1,500 Upper Yukon Area households that were identified in the Yukon Area *families* database. Additional calendars were made available to households upon request from department area offices in Emmonak and Fairbanks. The calendars provided space for fishermen to record their daily salmon harvest by species. Harvest information from calendars returned before or during the subsistence survey is used to reduce the need for recall during postseason surveys and may be used as the

primary source of harvest data when contact is not made with the selected household. Additionally, calendars provide data for maintaining the household's use group in the database, which is particularly crucial for households that are not selected for interviews in a given year.

In an effort to improve calendar returns during surveys of the villages, posters were sent to village post offices to remind fishermen to have their harvest calendars available for the surveyors. Additionally, announcements notifying fishermen of the surveyors' schedule were broadcast over local radio stations before the surveyors' arrival in the village. In addition, everyone who returned a properly filled out subsistence survey calendar became eligible for two \$100 lottery prizes.

Permits

In select areas of the Yukon River drainage households are required to obtain subsistence or personal use fishing permits before conducting fishing activities. Permits were issued from department area offices in Fairbanks, Delta Junction, and Tok. In addition, permit applications for the current season were mailed to all users who returned their permits from the previous season. Subsistence permit applications sent to communities other than Fairbanks included a letter explaining how to apply by mail and a schedule of when a department representative would be present in select villages if the applicant preferred to be issued a fishing permit in person. Permit issuing trips were conducted in the villages of Nenana, Manley, Minto, Central, Circle, Delta Junction, Tok, Dot Lake, Tanacross, Northway, and Eagle.

Permit holders were required to keep a record of their daily fish harvest on the permit and return the permit to the department within ten days of the expiration date. Households with outstanding expired permits who did not report their required harvest information were mailed reminder letters generally two weeks apart in two attempts to collect the information. Telephone contact with households that did not respond to these reminder letters was attempted as a final measure. Harvests are tabulated postseason for all permit holders who returned their permit, returned a completed reminder letter, or verbally reported their harvest information. These results were not expanded for users who did not return their permits.

Statistical Methods

In this survey, classical stratified random sampling methods (Cochran 1977) were used to estimate the average number of fish caught by each of the five use groups in each community, and the total number of fish caught by community, district and in the Yukon Area.

Denote that

N_{kj} = number of households in j th ($j = 1 \dots 5$) user group of the k th community

n_{kj} = number of sample households in the j th user group of the k th community

y_{kji} = response of i th sample household ($i = 1 \dots n_{kj}$) in the j th user group of the k th community

Mean response of the j th user group of the k th community (\bar{y}_{kj}) is

$$\bar{y}_{kj} = \frac{\sum_{i=1}^{n_{kj}} y_{kji}}{n_{kj}}$$

and its standard error (SE_{kj}) is

$$SE_{kj} = \sqrt{\frac{s_{kj}^2}{n_{kj}} \left(\frac{N_{kj} - n_{kj}}{N_{kj}} \right)} \text{ where } s_{kj}^2 = \frac{\sum_{i=1}^{n_{kj}} (y_{kji} - \bar{y}_{kj})^2}{n_{kj} - 1}$$

The estimate of total responses of the k th community (\hat{T}_k) is

$$\hat{T}_k = \sum_{j=1}^5 N_{kj} \bar{y}_{kj}$$

and its 95% confidence interval (95%CI_k) is

$$95\%CI_k = 1.96 \cdot \sqrt{\hat{V}(T_k)} \text{ where } \hat{V}(T_k) = \sum_{j=1}^5 N_{kj}^2 \left(\frac{N_{kj} - n_{kj}}{N_{kj}} \right) \left(\frac{s_{kj}^2}{n_{kj}} \right)$$

Because the estimates of the responses in each community are independent from each other, the estimate of survey wide total (\hat{T}) is

$$\hat{T} = \sum_{k=1}^5 \hat{T}_k$$

and its 95% confidence interval (95%CI) is

$$95\%CI = 1.96 \cdot \sqrt{\hat{V}(T)} \text{ where } \hat{V}(T) = \sum_{k=1}^5 \hat{V}(T_k)$$

RESULTS

Overall Estimation of Harvest

Based on the postseason survey and returned permits (subsistence and personal use) approximately 55,941 chinook, 72,301 summer chum, 35,713 fall chum and 22,156 coho salmon were harvested throughout the Yukon Area (Table 1). These numbers were extrapolated from 931 surveyed households (71% of the total selected), plus 392 returned permits (88% of total issued). The most common gear types used for subsistence salmon fishing throughout the Yukon Area were set gillnets (58%) followed by drift gillnets (35%) fish wheels (6%) and other gear (1%) (Table 1). Households in Districts 2 and 5 harvested the most chinook salmon and households on District 5 harvested the most fall chum salmon (Table 1). Approximately 183 surveyed households and 132 permitted households reported feeding subsistence caught salmon to dogs (Tables 2 and 3). The estimated number of salmon retained for dog food (from both surveyed and permitted households) throughout the Yukon Area was 43,550 fish (Tables 3 and 4).

Postseason Interviews

Postseason interviews were conducted with 931 households (71% of total selected) (Table 5). It was estimated that of the 2,643 households in the survey portion of the Yukon River approximately 1,295 households (49%) participated in subsistence fishing in 2001 (Table 6). The total population of the surveyed villages was estimated at 10,297 people (Table 7). Based on the postseason interviews approximately 47,886 chinook, 67,318 summer chum, 22,837 fall chum and 11,920 coho salmon were harvested in the surveyed villages (Table 8). Of the salmon harvested it was reported that approximately 46,150 chinook, 71,941 summer chum, 11,798 fall chum and 5,841 coho salmon were used for subsistence purposes (Table 9). Approximately 117,700 other fish (pink salmon, whitefish, northern pike and sheefish) were harvested throughout the Yukon Area (Table 10). The most common gear for subsistence salmon fishing were gillnets (set and drift) followed by fish wheels and other gear (Table 1). Salmon were harvested throughout the Yukon Area, although most of the subsistence harvest occurred in District 2 for chinook and summer chum salmon and Subdistrict 5-B for fall chum and coho salmon (Tables 11 – 14). Approximately 5,741 dogs were estimated to live in the various Yukon River communities (Table 2). Although dogs are located in over 1,800 Yukon River households, only about 10% of those households feed fish to dogs. These dogs were fed approximately 7,571 summer chum, 13,064 fall chum and 7,344 coho salmon in 2001 (Table 3). Subsistence salmon needs were not met for 56% of the households that responded (Table 15). Various reasons were given for not meeting their needs, these included: 1) poor run size, 2) fishing was closed when fish were available, 3) gear restrictions, 4) not enough money for boat gas because commercial fishing was closed and/or 4) the schedule didn't allow the users to fish as often as they needed.

Calendars

Although data from the returned calendars are not calculated into the Yukon Area harvest estimate (those households are expanded for in the survey results) the data is however of interest. Approximately 210 subsistence harvest calendars were collected or returned in 2001 (12% of total issued). Eighteen percent of the households that returned harvest calendars in 2001 did not fish this season. Approximately 14,400 chinook, 14,400 summer chum, 11,300 fall chum, 2,300 coho salmon and ten other fish (pink salmon, whitefish, etc.) were reported harvested on the calendars (Figure 3).

Permits

Subsistence

Approximately 340 subsistence permits were returned from the 2001 season (88% of total issued) (Table 16). Subsistence permit holders reported harvesting 5,420 chinook, 1,138 summer chum, 8,848 fall chum, 8,979 coho salmon and approximately 3,300 other fish (whitefish, sheefish, burbot, etc.) (Tables 16 and 17). The most common gear types reported on permits were set gillnets and fish wheels (Table 1). The largest percentage of permits were issued for the Yukon River area near Circle and Eagle (25%) (Table 16). From the permits, 132 households indicated that they fed salmon to dogs (Table 4). The households that indicated how many salmon they put up for dogs reported 15,571 whole salmon were retained for dog food.

Personal Use

Personal use permits are only issued for the Fairbanks Nonsubsistence Area (Figure 4). Approximately 55 personal use permits were returned from the 2001 season (93% of total issued) (Table 17). Personal use permit holders reported harvesting 122 chinook, 146 summer chum, 10 fall chum, 34 coho salmon and 21 other fish (whitefish and northern pike). The most common gear type reported on personal use permits were set gillnets (Table 1). Personal use fishing is defined as the means for the taking of finfish by an individual for consumption as food or use as bait by that individual or his immediate family [5AAC 77.001(f)] and therefore fish caught under the personal use guidelines may not be fed to dogs. Historically, this fishery was conducted as a subsistence fishery prior to the designation as a nonsubsistence area.

DISCUSSION

The 2001 Yukon Area subsistence harvests for all salmon species increased over the 2000 levels, except for summer chum salmon, which showed a decline in harvest. The chinook salmon harvest was 13% above the recent five-year average (1996 to 2000) (Figure 5). The summer chum salmon harvest was 26% below the most recent five-year average (Figure 6). The subsistence harvest of fall chum salmon was 45% below the recent five-year average (Figure 7). The coho salmon harvest was two percent above the recent five-year average (Figure 8). In January 2001, the Alaska Board of Fisheries made a determination that the amounts of salmon in the Yukon-Northern Area reasonably necessary for subsistence use were 45,500 – 66,700 chinook, 83,500 – 142,200 summer chum, 89,500 – 167,100 fall chum and 20,500 – 52,000 coho salmon. The 2001 harvests of chinook and coho salmon were within the amounts necessary for subsistence as defined by the Alaska Board of Fisheries. Summer and fall chum salmon harvests were below the defined amounts necessary for subsistence. The trend of overall decline in subsistence salmon harvests is illustrated in Figure 9.

There was no commercial fishing in the Alaskan portion of the Yukon River drainage in 2001. This was the first time since 1931 that commercial salmon fishing remained closed the entire season within the Alaskan portion of the Yukon River drainage. Typically large numbers of commercially caught fish are kept for subsistence use (Borba and Hamner 2001). The lack of a commercial fishery may have contributed to the reduction in the summer and fall chum salmon subsistence harvest. However, the primary factor was low abundance and subsequent management actions taken to reduce the subsistence harvest.

In 2001, the Alaska Board of Fisheries implemented a new subsistence schedule on the Yukon River. This schedule was intended to increase the quality of escapement, spread the harvest throughout the run to reduce the impact on any particular component of the run and spread subsistence opportunity among users in years of no commercial fishing. The schedule was based on past fishing schedules and was believed to provide reasonable opportunity for subsistence users to meet their needs during years of normal to below average runs. The goal of the schedule was to provide windows of time that salmon may migrate upriver with less exploitation.

Throughout the interview portion of the 2001 subsistence survey, staff noted various comments pertaining to the schedule, such as: the fishing schedule was too restrictive, fishermen wanted the hours changed, the schedule was a hardship to people with regular work hours, and/or the schedule gave women some time off from cutting fish. In addition, some users noted that there was often more competition for fishing sites, since all users in a village had to fish on the same schedule. Although the fishing schedule was more restrictive than what people in certain areas of the Yukon drainage had been used to, apparently users were still able to meet their needs for chinook and coho salmon. Because the summer and fall chum salmon returns were so poor, further fishing restrictions were placed upon these species, thereby reducing the number of fish available to subsistence users and personal use fishers and resulting in a lower harvest.

Even though the total harvests of chinook and coho salmon were within the “amounts necessary for subsistence”, 56% of the surveyed households indicated that their overall needs were not met in 2001 (Table 15). The survey did not attempt to determine if a household’s needs were met for each

particular salmon species. Therefore a household's needs may have been met in terms of chinook salmon, but may have fallen short in terms of fall chum salmon, thereby leaving them overall short of their harvest goals for the season. Fewer people indicated that their needs were not met in 2001 than in 2000, however more people indicated that their needs were not met than on average (Appendix B.11).

The department began inquiring during the 1992 postseason survey whether households' subsistence salmon needs had been met that year. Responses to these questions have revealed that even in years of relatively good salmon returns, based on escapement, approximately 20 - 30% of the households will state that their needs were not met. However, this line of questioning included all surveyed households regardless of whether they actively fished that season or not. In years of extremely poor returns, as expected, the responses of those households who had not met their needs increased substantially to as high as 64% in 2000 (Appendix B.11). In years of no or few commercial fishing opportunities, subsistence fishermen may be more likely to indicate that their needs had not been met as commercial fishing provides both food and income to many Yukon Area households.

The estimates produced by the sonar operated at Pilot Station, indicate the 2001 chinook salmon passage of approximately 137,500 fish (Pfisterer 2002) was 11% higher than the 1993 - 2000 average passage (excluding 1994 and 1996 when sonar estimates are not available). Over the past five years, District 1 commercial fishermen have removed an average of 37,900 chinook salmon before they reach the sonar at Pilot Station. However, in 2001 there was no commercial fishing on the Yukon. Therefore, if an average District 1 commercial harvest is subtracted from the 2001 passage estimate, then the 2001 total run may have been at least 20% below the 1993 - 2000 average (excluding 1994 and 1996). This estimate may be considered a minimum, as chinook salmon harvested in District 2, below Pilot Station, were not taken into consideration.

In 2001, the numbers of chum salmon recorded at the Pilot Station sonar remained below the 1993 - 2000 average passage (excluding 1994 and 1996 when sonar estimates are not available). Summer chum salmon passage resulted in a record low of 394,100 fish past the sonar at Pilot Station (Pfisterer 2002). The fall chum salmon passage of 360,400 fish was higher than the 2000 return, but still 25% below the 1993 - 2000 average (excluding 1994 and 1996).

Approximately 143,200 coho salmon passed by the Pilot Station sonar site in 2001 prior to August 31 (Pfisterer 2002). This was 22% lower than the 2000 passage estimate (sonar operated through September 14), but 21% above the 1993 - 2000 average (excluding 1994 and 1996 and most years the sonar project does not operate thorough the entire coho salmon run). In management this relatively strong coho run was targeted where possible while providing protection for the weaker fall chum salmon return. Fishing restrictions were implemented on the Tanana River, where fishermen were required to use either liveboxes or live chutes on their fish wheels in order to release fall chum salmon alive, while retaining the coho salmon. This management strategy enabled the subsistence users to target the more abundant coho salmon and reduce pressure on the weaker return of fall chum salmon in an attempt to provide a portion of their subsistence needs.

Pink salmon harvest information has been collected in surveyed communities in the Yukon Area since 1994 (Appendix B.9). Although pink salmon are often locally abundant in the Lower Yukon Area they are not typically sought after and harvests remain low. The 2001 pink salmon return and corresponding harvest was extremely low. Pink salmon have a cyclic fluctuation on the Yukon River, with even years producing larger returns than odd years. This pattern has been confirmed by the Pilot Station sonar, which counted approximately 1,300 pink salmon in 2001, as compared to the 2000 (even year) total of over 50,000 pink salmon, although these numbers are only an index as the sonar project does not attempt to estimate the passage of all pink salmon.

In 2001, the Yukon River was ice-free on June 5; this was approximately two weeks later than average. The early summer had periods of very high water; producing typically large amounts of debris that were transported downstream, making drift and/or set gillnet fishing difficult if not impossible. During the weekly Yukon River Fisheries Drainage Association (YRDFA) teleconferences, many people commented they were unable to fish during their scheduled time because of debris in the water.

In 2001, the largest pulse of fall chum salmon entered the Yukon River on July 18; this was one of the earliest dates that a pulse of that magnitude had been recorded. As the fall season progressed it became obvious that the first pulse contained a large portion of the fall chum salmon run. Because these fish came in so early, upriver fishermen who typically use fall chum salmon to feed dogs were unprepared to put up fish, as the weather was not cold enough to properly "crib" and preserve salmon for dog food. This may have reduced the pressure on fall chum salmon, and partially explain why people may not have met their subsistence salmon needs.

The number of dogs in the Yukon Area appeared to have been decreasing from 1998 to 2000 (Appendix B.10). Comments collected during subsistence surveys indicated that the numbers of dogs kept were reduced following the poor salmon returns in 1993 and 1997. However this decline was not noticed in the 2001 survey following the poor returns of 2000. In 2000 the concern for the lack of dog food in the Yukon Area spread around the country and donations began to arrive, which may have reduced the hardship. In 2001, no such region wide program was in place. In anticipation of poor chinook and fall chum salmon runs and the need to meet Canadian origin salmon obligations, the community of Eagle augmented their typical harvest of fall chum salmon with hatchery coho salmon carcasses in order to reduce the fishing pressure on fall chum salmon and provide food for their dogs. Fall chum harvest was reduced by 67% of average in Eagle.

Appendices B.1 through B.4 document the historical, annual subsistence salmon harvest from 1990 to 2001 by species and by community of residence. Chinook and coho salmon subsistence harvests have remained relatively stable over the years. However the harvests of summer and fall chum salmon have shown a dramatic decrease in recent years. Appendices B.5 through B.7 document the historical subsistence and personal use harvest from permits issued since 1987 to the present, by species and by permit area. In general, the numbers of Yukon and Tanana River permits issued and the ensuing harvest have been decreasing.

The discrepancies between reported *harvest* and reported *used* subsistence caught salmon (Tables 8 and 9) may have been due to a misunderstanding of the question during the postseason survey.

Users may have interpreted “use” to mean fish consumed by the family themselves, and they may not have included fish fed to dogs, even though that is a legally recognized subsistence use of salmon. The largest discrepancies between *harvest* and *use* were for fall chum and coho salmon, species both of which are used primarily for dog food in the Upper Yukon River drainage.

During 2001, the subsistence and personal use harvests of whitefish were up 35% from their recent five year average (Appendix B.12). Fishermen supplementing their low chum salmon subsistence catches with other fish species may have caused this increase. Pike and sheefish harvests were 22% below the recent five year average. A possible explanation for this lower harvest may be a decrease in incidental harvest of these non-salmon species during the course of normal commercial and subsistence fishing activities.

Although harvests of non-salmon species from subsistence and personal use fisheries within the Yukon Area are included in this report, the estimates may be imprecise because the stratification system used to expand to the total catch is based on a household’s historical salmon harvests. The correlation between the level of salmon harvest and the level of non-salmon harvest has not been determined. In order to improve the harvest estimates of non-salmon species, additional strata and sampling designs would need to be identified and developed (Borba and Hamner 1998).

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Table 1. Subsistence and personal use salmon harvest estimates which include test fish harvests given away for subsistence use, and related information, Yukon Area, 2001.

Community ^a	Survey Date or Permit Village	Number of Fishing Households ^b	Number of Dogs	Estimated Harvest				Primary Gear Used ^k		
				Chinook	Summer Chum	Fall Chum	Coho	Set Gillnet	Drift Gillnet	Fish Wheels
Hooper Bay	9/13-14	147	326	2,150	12,593	364	439	48	0	0
Scammon Bay	9/10-11	44	170	732	1,323	195	63	12	0	0
Coastal District Total		190	496	2,882	13,916	559	502	60	0	0
Sheldon Point	9/11-12	21	50	550	1,942	176	32	17	1	0
Alakanuk	9/8-11	66	206	973	5,992	1,032	414	18	8	0
Emmonak	9/6-10	84	201	2,473	8,242	1,272	342	12	22	0
Kotlik	9/8-9	65	152	3,093	6,595	957	486	7	9	0
District 1 Subtotal		236	609	7,089	22,771	3,437	1,274	54	40	0
Mountain Village	9/17-18	100	202	1,864	8,484	470	423	4	26	0
Pitkas Point	9/15-16	15	60	651	862	34	112	3	9	0
St. Marys	9/13-14	96	159	3,815	10,026	227	610	3	27	0
Pilot Station	9/20-21	47	134	2,614	5,329	1,522	222	5	15	0
Marshall	9/22	59	371	4,498	1,602	1,003	73	0	17	0
District 2 Subtotal		317	926	13,442	26,303	3,256	1,440	15	94	0
Russian Mission	9/23	35	308	3,428	165	76	0	2	8	0
Holy Cross	9/18	37	143	2,711	460	624	0	6	12	0
Shageluk	9/21	17	159	222	684	0	0	10	2	0
District 3 Subtotal		88	610	6,361	1,309	700	0	18	22	0
Lower Yukon River Total		641	2,145	26,892	50,383	7,393	2,714	87	156	0
Anvik	9/20-21	16	96	608	94	29	13	8	6	0
Grayling	9/24	32	133	1,077	92	314	144	4	12	0
Kaltag	9/29-30	41	63	1,506	10	607	533	0	14	1
Nulato	10/3-4	58	219	2,127	208	151	258	6	15	0
Koyukuk	10/2	15	93	449	118	517	80	3	8	0
Galena	10/1	52	420	1,755	53	420	142	6	12	1
Ruby	10/9-10	38	266	2,033	1,025	581	871	7	0	5
District 4 Yukon River Subtotal		252	1,290	9,555	1,600	2,619	2,041	34	67	7
Huslia	10/11-12	26	315	377	833	683	83	7	0	0
Hughes	10/13	13	80	144	551	0	117	9	1	0
Allakaket	10/11-12	17	127	76	1,604	50	25	9	0	0
Alatna	10/12	2	20	0	0	0	0	0	0	0
Bettles	10/9-10	4	243	0	0	0	0	1	0	0
Koyukuk River Subtotal		61	785	597	2,988	733	225	26	1	0
District 4 Subtotal		314	2,075	10,152	4,588	3,352	2,266	60	68	7
Tanana	10/4-5	37	435	4,112	1,407	9,779	6,675	13	0	8
Rampart	via phone	13	20	1,857	0	183	0	4	0	0
Fairbanks NSB ^e	permits	31	18	1,125	165	0	11	31	0	0
Stevens Village ^d	10/22, permits	23	78	1,111	0	20	2	17	0	0
Birch Creek	10/17	0	14	0	0	0	0	0	0	0
Beaver	10/15	15	26	1,368	328	21	0	5	0	0
Fort Yukon	10/18-19	58	350	2,361	289	2,209	972	9	0	11
Circle	permits	6	83	447	6	2,588	0	3	0	3
Central	permits	3	7	84	0	0	0	3	0	0
Eagle	permits	19	229	1,033	555	2,714	0	14	0	5
Other ^f	permits	6	70	40	0	0	0	4	0	0
District 5 Yukon River Subtotal		212	1,330	13,538	2,750	17,514	7,660	103	0	27

-Continued-

Table 1. (page 2 of 2).

Community ^a	Survey Date or Permit Village	Number of Fishing Households ^b	Number of Dogs	Estimated Harvest				Primary Gear Used ^k		
				Chinook	Summer Chum	Fall Chum	Coho	Set Gillnet	Drift Gillnet	Fish Wheels
Venetie	10/15-16	5	81	28	106	3,286	10	4	0	0
Chalkyitsik	10/16-17	2	27	0	0	73	4	2	0	0
Chandalar and Black Rivers Subtotal		7	108	28	106	3,359	14	6	0	0
District 5 Subtotal		219	1,438	13,566	2,856	20,873	7,674	109	0	27
Manley	permits	8	262	534	338	1,230	2,637	5	0	3
Minto	permits	27	201	197	19	251	0	19	0	3
Nenana	permits	19	416	1,405	19	999	4,443	5	0	14
Healy	permits	5	118	0	0	853	1,817	4	0	1
Fairbanks NSB ^g	permits	15	230	313	182	201	102	11	0	1
Other ^h	permits	20	162	0	0	2	1	16	0	0
District 6 Tanana River Subtotal		94	1,389	2,449	558	3,536	9,000	60	0	22
Upper Yukon River Total		627	4,902	26,167	8,002	27,761	18,940	229	68	56
Survey Village Subtotals		1,299	5,747	48,250	67,320	22,856	11,920	261	224	26
Subsistence Permit Subtotals ^c		159	1,796	5,056	1,138	8,828	8,977	91	0	30
Subsistence Test Fish Subtotals ⁱ		-	-	2,513	3,697	4,019	1,225			
Subsistence Harvests Subtotal		1,458	7,543	55,819	72,155	35,703	22,122	352	224	56
Personal Use Permit Subtotals		24	-	122	146	10	34	24	0	0
Alaska, Yukon River Total ^j		1,268	7,047	53,059	58,385	35,154	21,654	316	224	56
Alaska, Yukon Area Total		1,458	7,543	55,941	72,301	35,713	22,156	376	224	56
AK, Yukon Area Percentages of the Total		-	-	30%	39%	19%	12%	56%	33%	8%

Italicized numbers indicate that test fish have been added to the total fish harvested in that village as reported in the post season survey.

^a Data collected by Alaska Department of Fish and Game (ADF&G), Division of Commercial Fisheries. Survey data is expanded for number of fishing households, number of dogs, and harvest. Permit data is unexpanded, and is from all permits received as of February 28, 2002. The number of dogs is based on information obtained from permits issued, while the number of fishing households and their harvest is based on returned permits.

^b Estimated number of households that fished in surveyed communities or number of permit households who reported fishing in permit required areas.

^c Subsistence Permit Subtotal does not include Stevens Village

^d Permit harvest information from Stevens Village residents was used to complement the information obtained by the survey.

^e Fairbanks North Star Borough (Fairbanks NSB) households that obtained a permit and indicated they fished in the Yukon River permit required area.

^f Other includes residents of Allakaket, Wasilla, Wiseman, Manley, Nenana, Minto and the Upper Tanana River drainage villages of Northway, Tanacross, and Tok who obtained a household permit and fished in a Yukon River permit required area.

^g Fairbanks North Star Borough (Fairbanks NSB) households that obtained a permit and indicated they fished in the Tanana River permit required area.

^h Other includes residents of Denali Park, Eagle River, Gakona, Tanana, and the Upper Tanana River drainage villages of Northway, Tanacross, Dot Lake and Tok who fished in the Tanana River.

ⁱ Test fish given away for subsistence use.

^j Does not include Coastal District.

^k Primary Fishing Gear is not expanded for households that were not surveyed.

Table 2. Estimated number of households with dogs, number of households that feed fish to dogs, numbers of dogs, and corresponding confidence intervals (CI) for surveyed villages, Yukon Area, 2001.

Community	Total Households	Households Contacted	Number of Households with Dogs		Number of Households that Feed Fish to Dogs		Number of Dogs	
			Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)
Hooper Bay	213	69	159	20	0	0	326	69
Scammon Bay	85	22	75	11	0	0	170	87
Coastal District	298	91	234	23	0	0	495	111
Sheldon's Point	35	27	19	3	2	0	50	10
Alakanuk	144	45	94	21	11	21	206	63
Emmonak	183	65	125	20	4	7	201	49
Kotlik	95	26	80	13	2	3	152	40
District 1	457	163	318	32	19	22	609	90
Mountain Village	157	45	89	22	0	0	202	56
Pitkas Point	27	22	20	2	1	0	60	5
St. Mary's	130	41	77	19	1	2	159	83
Pilot Station	103	44	75	12	3	4	134	41
Marshall	80	24	70	11	2	2	371	157
District 2	497	176	331	34	7	5	926	191
Russian Mission	69	18	49	14	8	9	308	190
Holy Cross	61	27	35	9	4	6	143	91
Shageluk	37	28	30	3	4	0	159	14
District 3	167	73	114	17	16	11	610	211
Anvik	38	33	27	2	3	0	96	12
Grayling	48	21	35	10	1	1	133	59
Kaltag	60	23	40	9	3	4	63	23
Nulato	99	32	88	10	4	6	219	60
Koyukuk	35	24	21	4	8	6	93	41
Galena	201	53	140	24	2	0	420	214
Ruby	75	20	63	14	16	16	266	117
Huslia	92	20	68	17	16	16	315	146
Hughes	24	20	15	2	10	5	80	15
Allakaket	50	19	36	10	8	7	127	25
Alatna	7	3	4	0	0	0	20	0
Bettles	30	18	15	4	0	0	243	183
District 4	759	286	553	39	70	26	2,074	353
Tanana	113	37	72	17	17	8	435	106
Rampart	19	7	14	4	0	0	20	8
Stevens Village	36	20	20	4	6	10	75	46
Birch Creek	13	9	6	6	0	0	14	9
Beaver	29	12	14	6	0	0	26	14
Fort Yukon	171	45	121	21	33	23	350	95
Venetie	48	15	29	14	15	22	81	41
Chalkyitsik	36	27	18	3	1	1	27	6
District 5	465	172	293	33	72	34	1,026	156
Survey Totals	2,643	961	1,843	75	183	50	5,741	500

Table 3. Household and dog information reported by subsistence and personal use permits issued and returned, listed by fishery and by community of residence, Yukon Area, 2001. ^a

Community	Permit Information				Reported Household Information (based on permits issued)					
	Permits		Percent Returned	Numbers of Permits Returned that Fished	Number of People	Number of Fishermen	Number of Households with Dogs	Number of Dogs	Number of Households Feeding Whole Salmon to Dogs	Number of Whole Salmon Fed to Dogs
	Issued	Returned								
Subsistence Use Permits										
Central	9	8	89%	3	17	13	7	7	2	0
Circle	19	18	95%	6	45	31	16	83	12	2,625
Eagle	52	48	92%	19	115	84	40	229	28	2,240
FNSB ^b	86	80	93%	46	236	154	45	248	14	230
Healy	7	7	100%	5	24	19	6	118	6	2,641
Manley	16	14	88%	9	38	30	13	262	12	4,143
Minto	72	59	82%	27	242	124	26	201	17	182
Nenana	42	35	83%	21	119	66	38	416	26	3,510
Stevens Village	4	4	100%	4	15	7	3	10	1	0
Upper Tanana Villages ^c	66	55	83%	19	230	119	47	183	11	0
Other ^d	12	10	83%	4	42	25	2	41	3	0
Subsistence Permit Subtotal	385	338	88%	163	1,123	672	243	1,798	132	15,571
Personal Use Permits										
FNSB ^b and Delta Junction	58	54	93%	24	167	101	-	-	-	-
Personal Use Permit Subtotal	58	54	93%	24	167	101	-	-	-	-
Permit Totals	443	392	88%	187	1,290	773	243	1,798	132	15,571

^a As of February 28, 2002.

^b Fairbanks North Star Borough (FNSB) includes residents from the communities of Ester, Fairbanks, Ft. Wainwright, North Pole, and Salcha.

^c Upper Tanana Villages include residents from the communities of Delta Junction, Dot Lake, Northway, Tanacross, and Tok.

^d The category "other" represents residents from any other Alaskan community who were issued a subsistence fishing permit.

Table 4. Estimated number of salmon retained for dog food from subsistence harvests with corresponding confidence intervals (CI) for surveyed villages, Yukon Area, 2001.

Community	Total Households	Households Contacted	Summer Chum Salmon		Fall Chum Salmon		Coho Salmon		Total Salmon
			Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)	Estimated Total
Hooper Bay	213	69	0	0	0	0	0	0	0
Scammon Bay	85	22	0	0	0	0	0	0	0
Coastal District	298	91	0	0	0	0	0	0	0
Sheldon's Point	35	27	150	0	100	0	0	0	250
Alakanuk	144	45	0	0	0	0	0	0	0
Emmonak	183	65	52	79	0	0	0	0	52
Kotlik	95	26	21	23	0	0	0	0	21
District 1	457	163	223	82	100	0	0	0	323
Mountain Village	157	45	0	0	0	0	0	0	0
Pitkas Point	27	22	20	0	30	0	38	0	88
St. Mary's	130	41	45	30	0	0	0	0	45
Pilot Station	103	44	84	120	63	90	42	60	190
Marshall	80	24	105	78	117	86	0	0	222
District 2	497	176	255	146	210	125	80	60	545
Russian Mission	69	18	184	316	0	0	25	0	209
Holy Cross	61	27	221	321	111	160	0	0	332
Shageluk	37	28	468	0	0	0	0	0	468
District 3	167	73	873	450	111	160	25	0	1,008
Anvik	38	33	75	0	15	0	0	0	90
Grayling	48	21	11	6	23	12	0	0	34
Kaltag	60	23	0	0	30	0	30	0	60
Nulato	99	32	0	0	179	298	358	596	538
Koyukuk	35	24	104	82	491	70	189	28	783
Galena	201	53	25	0	240	0	13	0	278
Ruby	75	20	1,670	1,888	320	339	450	509	2,440
Huslia	92	20	895	416	667	207	83	103	1,645
Hughes	24	20	506	40	0	0	115	48	621
Allakaket	50	19	1,286	910	50	0	25	0	1,361
Alatna	7	3	0	0	0	0	0	0	0
Bettles	30	18	0	0	0	0	0	0	0
District 4	759	286	4,571	2,138	2,014	502	1,263	793	7,848
Tanana	113	37	1,209	343	7,490	1,861	5,620	1,550	14,319
Rampart	19	7	0	0	0	0	0	0	0
Stevens Village	36	20	0	0	0	0	0	0	0
Birch Creek	13	9	0	0	0	0	0	0	0
Beaver	29	12	0	0	0	0	0	0	0
Fort Yukon	171	45	334	324	1,996	1,062	354	354	2,685
Venetie	48	15	106	0	1,093	211	0	0	1,199
Chalkyitsik	36	27	0	0	50	40	1	1	52
District 5	465	172	1,649	472	10,629	2,153	5,976	1,590	18,254
Survey Totals	2,643	961	7,571	2,242	13,064	2,220	7,344	1,778	27,978

Table 5. Estimated total number of households, the sample size, the number contacted, and the percentage of the sampled households that were contacted in surveyed villages, by harvest stratum, with village and district totals, Yukon Area 2001. *

Community	Unknown			Does Not Harvest Salmon			Light Harvester			Medium Harvester			Heavy Harvester			Community Totals		
	N	n	%C	N	n	%C	N	n	%C	N	n	%C	N	n	%C	N	n	%C
Hooper Bay	12	12	5	42%	90	27	24	89%	21	18	14	78%	2	2	2	213	86	77%
Scammon Bay	2	2	1	50%	25	8	7	88%	54	16	10	63%	0	0	0	85	30	22
Coastal District	14	14	6	43%	115	35	31	89%	145	43	31	72%	2	2	2	288	116	86
Sheldon's Point	2	2	1	50%	6	6	4	67%	22	22	17	77%	1	1	0	35	35	26
Alakanuk	10	10	6	60%	45	14	9	64%	80	24	19	79%	0	0	0	144	57	43
Emmonak	12	12	3	25%	69	21	14	67%	85	43	32	74%	2	2	1	183	93	62
Kotik	1	1	0	0%	20	0	0	75%	54	16	11	69%	2	2	2	95	37	24
District 1	25	25	10	40%	148	49	33	76%	241	105	79	76%	6	6	3	457	222	165
Mountain Village	5	5	3	60%	45	14	8	57%	95	29	24	83%	0	0	0	157	60	45
Pitkas Point	1	1	0	0%	6	6	5	83%	18	18	14	78%	0	0	0	27	27	21
St. Mary's	8	8	2	25%	42	13	10	77%	61	18	12	67%	2	2	2	130	58	41
Pilot Station	2	2	1	50%	37	11	10	91%	59	30	27	90%	0	0	0	103	48	43
Marshall	2	2	1	50%	17	5	4	80%	54	16	12	75%	0	0	0	80	30	22
District 2	18	18	7	39%	147	49	37	76%	287	111	89	80%	2	2	2	487	223	172
Russian Mission	3	3	1	33%	27	8	5	63%	35	11	8	73%	1	1	1	69	26	18
Holy Cross	0	0	0	-	15	5	5	100%	42	21	18	86%	0	0	0	61	30	26
Shageluk	5	5	3	60%	9	9	5	56%	14	14	10	71%	0	0	0	37	37	27
District 3	8	8	4	50%	61	22	15	69%	91	46	36	78%	7	7	7	167	83	71
Anvik	1	1	0	0%	18	18	17	94%	15	15	12	80%	1	1	1	38	38	32
Grayling	0	0	0	-	10	5	3	60%	24	7	5	71%	1	1	1	48	26	21
Killing	2	2	0	0%	7	5	4	80%	46	14	13	93%	0	0	0	60	26	22
Nulato	1	1	0	0%	46	14	11	79%	43	13	12	92%	1	1	1	99	37	31
Koyukuk	1	1	1	100%	12	12	8	67%	19	19	13	68%	2	2	2	35	35	24
Galena	7	7	2	29%	118	35	23	66%	65	20	18	90%	2	2	2	201	73	53
Ruby	0	0	0	-	54	15	9	56%	13	5	5	60%	3	3	2	75	29	19
Huslia	2	2	1	50%	59	18	11	61%	26	8	5	63%	0	0	0	92	33	20
Hughes	1	1	0	0%	11	11	10	91%	10	10	8	80%	0	0	0	24	24	20
Alakaket	2	2	1	50%	26	8	7	88%	16	5	5	100%	1	1	1	50	21	19
Alatna	0	0	0	-	3	3	0	0%	4	4	1	25%	0	0	0	7	7	1
Bettles	5	5	2	40%	21	21	11	52%	2	2	2	100%	0	0	0	30	30	17
District 4	22	22	7	32%	385	166	114	69%	283	122	97	86%	11	11	9	759	379	279
Tanana	9	9	0	0%	65	20	12	60%	18	9	7	78%	12	12	11	113	59	37
Rampart	1	1	0	0%	11	11	5	45%	1	1	0	0%	0	0	0	19	19	6
Stevens Village	4	4	0	0%	15	15	7	47%	11	11	7	64%	1	1	1	36	36	18
Birch Creek	0	0	0	-	6	6	5	83%	7	7	2	29%	0	0	0	13	13	7
Beaver	1	1	0	0%	15	15	7	47%	8	8	4	50%	0	0	0	29	29	11
Fort Yukon	0	0	0	-	109	33	24	73%	48	14	11	79%	1	1	1	171	61	45
Verselle	4	4	2	50%	35	11	6	55%	6	5	4	80%	1	1	1	48	23	15
Chalkyitsik	0	0	0	-	27	27	20	74%	6	6	5	83%	0	0	0	36	36	27
District 5	19	19	2	11%	283	138	86	62%	105	61	40	66%	16	16	13	465	276	166
Survey Totals	106	106	36	34%	1,129	459	316	69%	1,152	488	372	76%	42	42	36	2,643	1,309	931
																		71%

* Total number of households (N), the sample size (n), the number of households contacted (C), and the percent of the sampled households that were contacted (%C).

Table 6. Estimated number of subsistence fishing households in surveyed villages, by harvest stratum, with village and district totals, Yukon Area, 2001.^a

Community	Unknown			Does Not Harvest Salmon			Light Harvest			Medium Harvest			Heavy Harvest			Total			Combined	
	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Total	Est CI(95%) (+/-)
Hooper Bay	12	5	0.6	0.2	90	25	0.5	0.1	91	23	0.8	0.0	18	14	0.9	0.1	2	2	213	69 147 20
Scammon Bay	2	1	0.0	-	25	7	0.3	0.2	54	10	0.6	0.1	4	4	1.0	0.0	0	0	85	22 44 17
Coastal District	14	6	0.5	0.2	115	32	0.5	0.1	145	33	0.7	0.0	22	18	0.9	0.0	2	2	298	91 190 27
Sheldon's Point	2	1	0.0	-	6	4	0.0	0.0	22	18	0.7	0.0	4	4	1.0	0.0	1	0	35	27 21 2
Alakanuk	10	6	0.5	0.1	45	9	0.0	0.0	80	21	0.6	0.0	9	9	0.9	0.0	0	0	144	45 66 14
Emmonak	12	4	0.3	0.2	69	15	0.3	0.1	85	33	0.5	0.0	15	12	0.8	0.1	2	1	183	65 84 19
Kotlik	1	0	-	-	28	6	0.7	0.2	54	11	0.6	0.1	10	7	1.0	0.0	2	2	95	26 65 18
District 1	25	11	0.3	0.1	148	34	0.3	0.1	241	83	0.6	0.0	38	32	0.9	0.0	5	3	457	163 236 30
Mountain Village	5	3	0.7	0.2	45	8	0.4	0.2	95	24	0.7	0.0	12	10	1.0	0.0	0	0	157	45 100 21
Pitkas Point	1	0	-	-	6	5	0.2	0.1	18	15	0.7	0.0	2	2	0.5	0.0	0	0	27	22 15 2
St. Mary's	8	2	1.0	0.0	42	10	0.6	0.1	61	12	0.7	0.1	17	15	0.9	0.0	2	2	130	41 96 18
Pilot Station	2	1	0.0	-	37	10	0.4	0.1	59	28	0.5	0.0	5	5	0.6	0.0	0	0	103	44 47 13
Marshall	2	1	1.0	-	17	4	0.0	0.0	54	13	0.9	0.0	7	6	1.0	0.0	0	0	80	24 59 7
District 2	18	7	0.7	0.1	147	37	0.4	0.1	287	92	0.7	0.0	43	38	0.9	0.0	2	2	497	176 317 32
Russian Mission	3	1	0.0	-	27	5	0.2	0.2	35	8	0.7	0.1	3	3	1.0	0.0	1	1	69	18 35 14
Holy Cross	0	0	-	-	15	5	0.0	0.0	42	19	0.7	0.0	4	3	1.0	0.0	0	0	61	27 37 6
Shageluk	5	3	0.7	0.2	9	5	0.2	0.1	14	11	0.4	0.0	3	3	1.0	0.0	6	6	37	28 17 4
District 3	8	4	0.4	0.1	51	15	0.1	0.1	91	38	0.7	0.0	10	9	1.0	0.0	7	7	167	73 88 15
Anvik	1	0	-	-	18	17	0.1	0.0	15	12	0.7	0.0	3	3	1.0	0.0	1	1	38	33 16 2
Grayling	0	0	-	-	10	3	0.0	0.0	24	5	0.8	0.1	13	12	0.9	0.0	1	1	48	21 32 8
Kaitag	2	0	-	-	7	5	0.2	0.1	46	13	0.7	0.1	5	5	0.8	0.0	0	0	60	23 41 9
Nulato	1	0	-	-	46	11	0.5	0.1	43	12	0.6	0.1	8	8	0.9	0.0	1	1	99	32 58 16
Koyukuk	1	1	0.0	0.0	12	8	0.3	0.1	19	13	0.5	0.0	1	0	-	-	2	2	35	24 15 4
Galena	7	2	0.0	0.0	118	23	0.2	0.1	65	18	0.3	0.1	9	8	0.9	0.0	2	2	201	53 52 21
Ruby	0	0	-	-	54	10	0.5	0.2	13	3	0.3	0.2	5	5	0.8	0.0	3	2	75	20 38 18
Huslia	2	1	1.0	-	59	11	0.1	0.1	26	5	0.6	0.2	5	3	0.7	0.2	0	0	92	20 28 15
Hughes	1	0	-	-	11	10	0.3	0.1	10	8	0.7	0.0	2	2	1.0	0.0	0	0	24	20 13 2
Alakaket	2	1	1.0	-	26	7	0.0	0.0	16	5	0.6	0.2	5	5	0.8	0.0	1	1	50	19 17 6
Alatna	0	0	-	-	3	1	0.0	-	4	2	0.5	0.3	0	0	-	-	0	0	7	3 2 3
Bettles	5	2	0.5	0.4	21	12	0.0	0.0	2	2	0.0	0.0	2	2	0.5	0.0	0	0	30	18 4 4
District 4	22	7	0.3	0.1	385	118	0.2	0.0	283	98	0.6	0.0	58	53	0.8	0.0	11	10	759	286 314 38
Tanana	9	0	-	-	65	12	0.3	0.1	18	7	0.1	0.1	9	7	0.9	0.1	12	11	113	37 37 16
Rampart	1	0	-	-	11	5	0.6	0.2	1	0	-	-	6	2	1.0	0.0	0	0	19	7 13 4
Stevens Village	4	0	-	-	15	7	0.4	0.2	11	8	0.8	0.0	5	5	0.6	0.0	1	0	36	20 19 5
Birch Creek	0	0	-	-	6	5	0.0	0.0	7	4	0.0	0.0	0	0	-	-	0	0	13	9 0 0
Beaver	1	0	-	-	15	7	0.3	0.1	8	4	0.7	0.1	5	1	1.0	-	0	0	29	12 15 5
Fort Yukon	0	0	-	-	109	24	0.2	0.1	48	11	0.5	0.1	13	9	1.0	0.0	1	1	171	45 58 20
Venetie	4	2	0.0	0.0	35	6	0.0	0.0	6	4	0.5	0.1	2	2	0.5	0.0	1	1	48	15 5 2
Chalkyitsik	0	0	-	-	27	20	0.0	0.0	6	5	0.4	0.1	3	2	0.0	0.0	0	0	36	27 2 1
District 5	19	2	0.0	0.0	283	86	0.2	0.0	105	43	0.5	0.0	43	28	0.8	0.0	15	13	465	172 150 26
Survey Totals	106	37	0.4	0.0	1,129	322	0.3	0.0	1,152	387	0.6	0.0	214	178	0.9	0.0	42	37	2,643	961 1,295 71

^a The total number of households (N), the number of households contacted (n), standard error (SE), and includes 95 percent confidence interval, CI (95%). Dashes indicate indefinable values.

Table 7. Estimated number of people in households in surveyed villages, by harvest stratum, with village and district totals, Yukon Area, 2001. *

Community	Unknown				Does Not Harvest Salmon				Light Harvester				Medium Harvester				Heavy Harvester				Combined			
																					Total		Est CI(95%)	
	N	n	mean	SE	N	n	mean	SE	N	n	mean	SE	N	n	mean	SE	N	n	mean	SE	N	n	Total	(+/-)
Hooper Bay	12	5	6.2	1.0	90	24	5.3	0.6	91	21	6.6	0.4	18	14	6.0	0.4	2	2	4.5	0.0	213	66	1,274	126
Scammon Bay	2	1	5.0	-	25	7	5.4	0.9	54	10	4.3	0.5	4	4	7.3	0.0	0	0	-	-	85	22	407	77
Coastal District	14	6	6.0	0.8	115	31	5.3	0.5	145	31	5.8	0.3	22	18	6.2	0.4	2	2	4.5	0.0	298	88	1,681	148
Sheldon's Point	2	1	3.0	-	6	4	2.8	0.3	22	17	6.1	0.3	4	4	7.5	0.0	1	0	-	-	35	26	188	17
Alakanuk	10	6	5.7	0.6	45	9	3.3	0.9	80	19	4.4	0.4	9	9	5.3	0.0	0	0	-	-	144	43	608	104
Emmonak	12	3	5.3	1.5	69	14	3.6	0.5	85	32	4.8	0.3	15	12	4.8	0.3	2	1	4.0	-	183	62	801	94
Kotlik	1	0	-	-	28	6	5.7	1.2	54	11	4.0	0.5	10	5	4.8	0.8	2	2	3.0	0.0	95	24	434	88
District 1	25	10	5.1	0.8	148	33	3.9	0.4	241	79	4.7	0.2	38	30	5.2	0.2	5	3	2.8	0.0	457	155	2,032	167
Mountain Village	5	3	2.7	0.2	45	8	3.8	0.8	95	24	4.2	0.3	12	10	5.9	0.2	0	0	-	-	157	45	657	95
Pitkas Point	1	0	-	-	6	5	4.2	0.4	18	14	5.0	0.2	2	2	5.0	0.0	0	0	-	-	27	21	125	11
St. Mary's	8	2	6.5	1.3	42	10	5.1	0.8	61	12	5.0	0.4	17	15	3.9	0.2	2	2	5.0	0.0	130	41	647	89
Pilot Station	2	1	3.0	-	37	10	4.9	1.0	59	27	5.5	0.2	5	5	5.8	0.0	0	0	-	-	103	43	542	77
Marshall	2	1	8.0	-	17	4	3.5	0.3	54	12	5.0	0.4	7	5	3.4	0.1	0	0	-	-	80	22	374	50
District 2	18	7	4.9	0.6	147	37	4.4	0.4	287	89	4.9	0.1	43	37	4.6	0.1	2	2	5.0	0.0	497	172	2,344	160
Russian Mission	3	1	2.0	-	27	5	3.8	0.6	35	8	5.2	0.7	3	3	4.3	0.0	1	1	3.0	0.0	69	18	308	57
Holy Cross	0	0	-	-	15	5	2.2	0.6	42	18	3.5	0.3	4	3	4.0	0.8	0	0	-	-	61	26	198	34
Shageluk	5	3	3.0	0.6	9	5	3.6	0.8	14	10	3.7	0.4	3	3	1.3	0.0	6	6	4.0	0.0	37	27	127	20
District 3	8	4	2.6	0.4	51	15	3.3	0.4	91	36	4.2	0.3	10	9	3.3	0.3	7	7	3.9	0.0	167	71	634	70
Anvik	1	0	-	-	18	17	2.1	0.1	15	12	3.0	0.2	3	3	4.7	0.0	1	0	-	-	38	32	98	7
Grayling	0	0	-	-	10	3	4.0	1.5	24	5	4.6	1.0	13	12	4.8	0.2	1	1	2.0	0.0	48	21	214	55
Kaltag	2	0	-	-	7	4	1.5	0.3	46	13	4.1	0.3	5	5	5.0	0.0	0	0	-	-	60	22	227	31
Nulato	1	0	-	-	46	11	4.2	0.4	43	12	4.6	0.6	8	7	3.9	0.2	1	1	4.0	0.0	99	31	428	64
Koyukuk	1	1	2.0	0.0	12	8	2.1	0.3	19	13	2.9	0.3	1	0	-	-	2	2	3.5	0.0	35	24	90	13
Galena	7	2	2.0	0.9	118	23	2.6	0.3	65	18	3.2	0.2	9	8	3.6	0.2	2	2	1.0	0.0	201	53	566	73
Ruby	0	0	-	-	54	9	3.1	0.8	13	3	2.6	1.0	5	5	2.4	0.0	3	2	5.5	0.8	75	19	231	92
Huslia	2	1	4.0	-	59	11	3.6	0.6	26	5	3.4	0.9	5	3	4.7	1.3	0	0	-	-	92	20	334	86
Hughes	1	0	-	-	11	10	1.7	0.1	10	8	3.3	0.3	2	2	5.0	0.0	0	0	-	-	24	20	62	7
Allakaket	2	1	3.0	-	26	7	2.1	0.5	16	5	3.6	0.6	5	5	3.6	0.0	1	1	5.0	0.0	50	19	142	31
Alatna	0	0	-	-	3	0	-	-	4	1	4.0	-	0	0	-	-	0	0	-	-	7	1	16	0
Bettles	5	2	1.5	0.4	21	11	2.4	0.3	2	2	1.0	0.0	2	2	3.0	0.0	0	0	-	-	30	17	65	14
District 4	22	7	1.7	0.3	385	114	2.9	0.2	283	97	3.7	0.1	58	52	4.0	0.1	11	9	3.3	0.0	759	279	2,474	175
Tanana	9	0	-	-	65	12	2.4	0.4	18	7	2.8	0.4	9	7	3.0	0.3	12	11	3.4	0.1	113	37	276	58
Rampart	1	0	-	-	11	5	1.4	0.3	1	0	-	-	6	1	3.0	-	0	0	-	-	19	6	33	6
Stevens Village	4	0	-	-	15	7	3.4	0.6	11	7	2.0	0.4	5	4	2.8	0.3	1	0	-	-	36	18	87	19
Birch Creek	0	0	-	-	6	5	2.4	0.3	7	2	2.0	0.8	0	0	-	-	0	0	-	-	13	7	28	12
Beaver	1	0	-	-	15	7	2.3	0.4	8	4	2.7	0.7	5	0	-	-	0	0	-	-	29	11	56	18
Fort Yukon	0	0	-	-	109	24	2.1	0.3	48	11	2.9	0.4	13	9	4.2	0.4	1	1	1.0	0.0	171	45	427	75
Venetie	4	2	3.0	0.7	35	6	2.5	0.6	6	4	5.0	0.2	2	2	3.5	0.0	1	1	5.0	0.0	48	15	142	39
Chalkyitsik	0	0	-	-	27	20	1.9	0.1	6	5	3.8	0.3	3	2	3.0	1.2	0	0	-	-	36	27	82	10
District 5	19	2	0.6	0.2	283	86	2.3	0.2	105	40	2.9	0.2	43	25	3.0	0.2	15	13	3.1	0.0	465	166	1,132	107
Survey Totals	106	36	3.5	0.2	1,129	316	3.3	0.1	1,152	372	4.4	0.1	214	171	4.3	0.1	42	36	3.4	0.0	2,643	931	10,297	350

* The total number of households (N), the number of households contacted (n), standard error (SE), and includes 95 percent confidence interval, CI (95%).

Table 8. Subsistence salmon harvest estimates and corresponding confidence intervals (CI) for surveyed villages, Yukon Area, 2001.

Community	Total Households	Households Contacted	Chinook Salmon		Summer Chum Salmon		Fall Chum Salmon		Coho Salmon		Total Salmon
			Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)	Estimated Total
Hooper Bay	213	69	2,150	560	12,593	3,463	364	600	439	719	15,546
Scammon Bay	85	22	732	626	1,323	926	195	134	63	95	2,313
Coastal District	298	91	2,881	840	13,915	3,585	560	614	503	725	17,859
Sheldon's Point	35	27	550	110	1,942	380	176	42	32	26	2,701
Alakanuk	144	45	973	347	5,992	2,493	761	746	242	240	7,969
Emmonak	183	65	1,543	496	6,777	2,238	273	318	145	201	8,738
Kotlik	95	26	2,109	1,002	6,062	3,062	533	266	363	165	9,067
District 1	457	163	5,176	1,176	20,773	4,554	1,744	854	783	354	28,475
Mountain Village	157	45	1,864	595	8,484	3,665	131	117	121	87	10,600
Pitkas Point	27	22	651	135	862	292	34	20	112	63	1,657
St. Mary's	130	41	3,815	1,130	10,026	3,145	227	228	610	712	14,678
Pilot Station	103	44	2,053	702	3,633	1,970	30	30	42	60	5,757
Marshall	80	24	4,471	1,181	1,601	743	1,003	624	73	92	7,148
District 2	497	176	12,853	1,881	24,605	5,277	1,424	676	957	729	39,839
Russian Mission	69	18	3,417	1,559	163	107	76	45	0	0	3,657
Holy Cross	61	27	2,711	681	460	224	624	665	0	0	3,795
Shageluk	37	28	222	74	684	384	0	0	0	0	907
District 3	167	73	6,351	1,702	1,308	457	700	666	0	0	8,359
Anvik	38	33	608	101	94	18	29	15	13	11	744
Grayling	48	21	1,077	311	92	38	314	262	144	81	1,628
Kaltag	60	23	1,506	533	10	9	113	162	282	219	1,911
Nulato	99	32	2,127	904	208	208	151	193	258	264	2,745
Koyukuk	35	24	449	152	118	82	517	64	80	24	1,164
Galena	201	53	1,755	878	53	20	420	108	142	117	2,370
Ruby	75	20	2,033	890	1,025	908	581	602	871	844	4,510
Huslia	92	20	377	234	833	413	683	209	83	103	1,976
Hughes	24	20	144	32	551	64	0	0	117	47	812
Allakaket	50	19	76	28	1,604	901	50	0	25	0	1,755
Alatna	7	3	0	0	0	0	0	0	0	0	0
Bettles	30	18	0	0	0	0	0	0	0	0	0
District 4	759	286	10,152	1,688	4,588	1,365	2,858	744	2,016	929	19,614
Tanana	113	37	4,112	844	1,407	344	9,779	2,729	6,675	1,608	21,973
Rampart	19	7	1,857	1,818	0	0	183	234	0	0	2,040
Stevens Village	36	20	747	342	0	0	0	0	0	0	747
Birch Creek	13	9	0	0	0	0	0	0	0	0	0
Beaver	29	12	1,368	266	328	11	21	31	0	0	1,717
Fort Yukon	171	45	2,361	1,001	289	314	2,209	1,093	972	820	5,831
Venetie	48	15	28	0	106	0	3,286	1,517	10	0	3,430
Chalkyitsik	36	27	0	0	0	0	73	59	4	3	77
District 5	465	172	10,472	2,282	2,129	466	15,552	3,317	7,661	1,805	35,815
Survey Totals	2,643	961	47,886	4,072	67,318	7,983	22,837	3,683	11,920	2,303	149,961

Table 9. Estimated number of salmon used for subsistence purposes and corresponding confidence intervals (CI) for surveyed villages, Yukon Area, 2001.

Community	Total Households		Chinook Salmon		Summer Chum Salmon		Fall Chum Salmon		Coho Salmon		Total Salmon	
			Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)
Hooper Bay	213	69	1,862	441	14,183	3,986	304	504	458	755	16,806	
Scammon Bay	85	22	1,066	454	2,199	1,145	195	134	90	101	3,551	
Coastal District	298	91	2,928	632	16,382	4,148	500	521	548	762	20,357	
Sheldon's Point	35	27	640	149	1,988	468	156	29	178	171	2,962	
Alakanuk	144	45	1,215	406	7,120	2,546	396	441	268	253	9,000	
Emmonak	183	65	2,865	733	10,400	2,543	404	323	245	212	13,914	
Kotlik	95	26	2,355	953	7,251	2,767	590	379	279	80	10,475	
District 1	457	163	7,076	1,278	26,759	4,563	1,546	666	970	380	36,350	
Mountain Village	157	45	2,038	497	9,297	3,134	182	124	129	53	11,646	
Pitkas Point	27	22	826	113	1,148	326	8	6	80	53	2,061	
St. Mary's	130	41	4,101	1,429	8,551	3,073	281	286	492	465	13,425	
Pilot Station	103	44	2,027	642	3,808	1,790	53	44	15	14	5,903	
Marshall	80	24	3,722	727	1,550	484	787	647	38	36	6,107	
District 2	497	176	12,715	1,800	24,353	4,776	1,320	719	754	473	39,142	
Russian Mission	69	18	2,467	1,743	145	123	51	45	15	15	2,677	
Holy Cross	61	27	2,601	645	384	211	657	716	0	0	3,642	
Shageluk	37	28	236	69	140	37	48	35	4	5	428	
District 3	167	73	5,304	1,860	670	247	755	718	18	16	6,747	
Anvik	38	33	560	97	35	18	41	16	16	11	652	
Grayling	48	21	1,000	351	80	38	326	326	140	81	1,547	
Kallag	60	23	1,542	540	11	11	132	200	409	392	2,095	
Nulato	99	32	2,318	874	208	208	151	193	502	414	3,179	
Koyukuk	35	24	492	148	27	11	56	0	28	3	603	
Galena	201	53	2,110	861	38	37	263	124	167	124	2,579	
Ruby	75	20	2,015	952	2,064	1,952	483	390	650	567	5,212	
Huslia	92	20	420	253	118	211	18	32	0	0	556	
Hughes	24	20	158	33	245	63	0	0	14	7	416	
Allakaket	50	19	89	27	407	76	65	0	27	0	588	
Alatna	7	3	0	0	0	0	0	0	0	0	0	
Bettles	30	18	2	0	0	0	0	0	4	4	6	
District 4	759	286	10,706	1,709	3,234	1,977	1,535	593	1,956	817	17,431	
Tanana	113	37	3,222	722	411	288	2,075	1,124	1,164	767	6,872	
Rampart	19	7	432	250	0	0	183	234	0	0	615	
Stevens Village	36	20	979	413	0	0	0	0	0	0	979	
Birch Creek	13	9	8	4	0	0	7	6	0	0	15	
Beaver	29	12	383	299	26	27	21	31	0	0	430	
Fort Yukon	171	45	2,335	1,013	0	0	1,219	872	392	331	3,946	
Venetie	48	15	43	31	106	0	2,563	1,531	38	42	2,750	
Chalkyitsik	36	27	20	7	0	0	75	59	1	1	96	
District 5	465	172	7,423	1,368	542	289	6,142	2,104	1,596	837	15,702	
Survey Totals	2,643	961	46,150	3,678	71,941	8,055	11,798	2,555	5,841	1,522	135,730	

Table 10. Estimated or reported subsistence harvest of pink salmon and other miscellaneous fish species by surveyed villages, Yukon Area, 2001.

Estimated Substance Harvest with Corresponding Confidence Intervals (CI) (Expanded to Estimate Survey Village Harvest)										Reported Harvest of Miscellaneous Fish Species, (Not Expanded)											
Community	Total Households Contacted	Pink Salmon		Large Whitefish *		Small Whitefish		Pike		Sheefish		Total Expanded Misc. Fish Harvest	Burbot	Lamprey	Tomcod	Grayling	Sucker	Arctic Char	Blackfish	Total Not Expanded Misc. Fish Harvest	
		Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)										
Hooper Bay	213	69	32	38	1,174	812	3,574	2,015	1,084	817	133	6,007	71	0	2,087	0	0	0	1	13,360	15,519
Scammon Bay	85	22	362	414	416	292	978	781	624	394	84	2,466	13	0	1,170	0	0	4	4	10,800	11,987
Coastal District	288	91	394	415	1,692	863	4,552	2,161	1,718	907	216	8,473	84	0	3,257	0	0	5	24,160	27,506	
Sheldon's Point	35	27	0	0	487	179	1,297	338	138	57	981	2,913	179	0	452	0	0	0	0	8,900	9,531
Atkasuk	144	45	0	0	1,040	595	1,653	895	321	180	1,220	4,233	46	0	250	0	0	2	10,490	10,788	
Emmonak	183	65	9	8	603	375	1,972	1,261	469	311	692	3,745	31	0	2,801	0	0	10	12,374	15,216	
Kotik	95	26	0	0	676	236	775	585	325	347	2,229	4,004	20	0	168	0	0	12	5,500	5,700	
District 1	487	183	8	8	2,816	763	5,696	1,887	1,253	563	5,122	14,896	278	0	3,871	0	0	24	37,264	41,235	
Mountain Village	157	45	0	0	2,002	1,119	1,127	790	1,026	395	456	4,611	737	1,635	0	67	1	8	4,850	7,298	
Pikas Point	27	22	0	0	1,518	181	350	21	166	65	231	2,265	40	155	0	0	0	1	5,552	5,748	
St. Mary's	130	41	0	0	3,740	1,398	2,810	3,106	1,527	691	529	8,606	120	823	350	79	0	37	5,795	7,204	
Pilot Station	103	44	0	0	1,633	704	78	74	252	102	596	2,550	220	32	0	3	2	0	2,100	2,357	
Marshall	60	24	0	0	7,267	7,659	0	0	4,099	2,729	1,150	12,516	385	335	0	0	0	0	1,480	2,200	
District 2	497	176	0	0	16,160	7,879	4,365	3,206	7,070	2,645	2,953	30,548	1,502	2,980	350	149	3	46	19,777	24,807	
Russian Mission	69	18	0	0	3,283	1,741	0	0	2,675	1,053	922	6,880	30	735	0	0	0	0	3,700	4,465	
Holy Cross	61	27	0	0	707	590	394	518	440	352	216	1,757	126	200	0	8	10	1	0	345	
Shageluk	37	26	0	0	1,856	1,198	1,648	1,138	120	31	109	3,734	37	0	0	3	17	0	40	97	
District 3	167	73	0	0	5,846	2,194	2,042	1,250	3,235	1,111	1,247	12,371	193	935	0	11	27	1	3,740	4,907	
Anvik	38	33	0	0	113	34	35	23	93	23	100	340	0	0	0	6	0	0	50	56	
Grayling	48	21	0	0	265	179	205	64	135	66	138	743	70	605	0	24	60	14	0	773	
Kallag	60	23	0	0	260	131	0	0	12	14	73	345	2	0	0	22	0	3	0	27	
Nulato	99	32	0	0	580	370	358	596	44	61	112	2,095	53	0	0	326	0	105	7	491	
Koyukuk	35	24	0	0	1,537	1,043	0	0	360	257	210	1,095	36	0	0	0	0	10	0	46	
Galeana	201	53	0	0	744	140	500	0	56	73	224	1,525	84	0	0	0	20	0	940	1,044	
Ruby	75	20	0	0	821	989	108	191	97	143	65	1,091	6	0	0	30	0	4	0	40	
Huslia	92	20	0	0	6,465	9,179	0	0	1,128	1,025	1,233	8,826	8	0	0	173	0	1	0	182	
Hughes	24	20	0	0	1,258	370	10,183	3,282	82	22	358	11,880	216	0	0	147	16	0	0	379	
Alakaket	60	19	0	0	711	176	635	0	123	27	572	2,041	200	0	0	115	40	6	0	361	
Alatna	7	3	0	0	8	11	14	19	0	0	30	52	0	0	0	10	0	0	0	10	
Bettles	30	18	0	0	0	0	0	0	30	34	16	45	0	0	0	108	0	26	0	134	
District 4	709	286	0	0	12,762	9,311	12,038	3,342	2,160	1,074	3,122	30,092	875	605	0	961	136	169	997	3,543	
Tanana	113	37	0	0	7,582	2,055	8,409	2,319	153	56	1,440	17,584	56	0	0	41	100	0	0	197	
Rampart	19	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Slevens Village	36	20	0	0	2	3	51	74	54	77	0	107	0	0	0	0	0	0	0	0	
Birch Creek	13	9	0	0	30	24	0	0	50	39	14	94	0	0	0	0	0	0	0	0	
Beaver	29	12	0	0	0	0	0	0	54	77	13	66	0	0	0	0	0	0	0	0	
Fort Yukon	171	45	0	0	1,303	650	872	869	843	399	237	3,255	40	0	0	51	11	6	0	108	
Venelle	48	15	0	0	26	10	50	34	5	5	9	80	0	0	0	225	0	0	0	225	
Chalkytsik	36	27	0	0	5	4	0	0	160	76	9	174	10	0	0	65	0	0	0	75	
District 5	485	172	0	0	8,947	2,155	9,383	2,478	1,317	426	1,713	21,360	106	0	0	382	111	6	0	605	
Survey Totals	2,643	961	403	416	48,123	12,632	38,077	6,055	16,783	3,426	14,384	117,740	2,836	4,520	7,278	1,503	277	251	85,938	102,603	

* Large whitefish are considered those four pounds or larger and small whitefish are less than four pounds.

Table 11. Estimated subsistence harvest of chinook salmon by fishing location in surveyed villages, Yukon Area, 2001*

	Coastal	Districts			Subdistricts							River Drainages					
COMMUNITY	District	1	2	3	4A	4B	4C	5A	5B	5C	5D	Innoko	Koyukuk	Chandalar	Porcupine	Black	Community
Hooper Bay	176	1,973	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,150
Scammon Bay	11	720	-	-	-	-	-	-	-	-	-	-	-	-	-	-	732
Coastal District	187	2,693	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,881
Sheldon's Point	25	525	-	-	-	-	-	-	-	-	-	-	-	-	-	-	550
Alakanuk	-	973	-	-	-	-	-	-	-	-	-	-	-	-	-	-	973
Emmonak	-	1,542	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,543
Kotlik	1,359	750	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,109
District 1	1,384	3,790	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,176
Mountain Village	-	307	1,555	-	-	-	-	-	-	-	-	-	-	-	-	-	1,864
Pitkas Point	-	60	590	-	-	-	-	-	-	-	-	-	-	-	-	-	651
St. Mary's	-	-	3,815	-	-	-	-	-	-	-	-	-	-	-	-	-	3,815
Pilot Station	-	-	2,052	-	-	-	-	-	-	-	-	-	-	-	-	-	2,053
Marshall	-	-	4,470	-	-	-	-	-	-	-	-	-	-	-	-	-	4,471
District 2	-	367	12,482	-	-	-	-	-	-	-	-	-	-	-	-	-	12,853
Russian Mission	-	-	-	3,417	-	-	-	-	-	-	-	-	-	-	-	-	3,417
Holy Cross	-	-	-	2,578	-	-	132	-	-	-	-	-	-	-	-	-	2,711
Shageluk	-	-	-	80	-	-	-	-	-	-	-	142	-	-	-	-	222
District 3	-	-	-	6,075	-	-	132	-	-	-	-	142	-	-	-	-	6,351
Anvik	-	-	-	32	575	-	-	-	-	-	-	-	-	-	-	-	608
Grayling	-	-	-	-	1,075	-	-	-	1	-	-	-	-	-	-	-	1,077
Kaltag	-	-	-	-	1,506	-	-	-	-	-	-	-	-	-	-	-	1,506
Nulato	-	-	-	-	2,127	-	-	-	-	-	-	-	-	-	-	-	2,127
Koyukuk	-	-	-	-	365	82	-	-	-	-	-	-	-	-	-	-	449
Galena	-	-	-	-	100	404	628	-	-	-	-	-	620	-	-	-	1,755
Ruby	-	-	-	-	-	215	1,817	-	-	-	-	-	-	-	-	-	2,033
Huslia	-	-	-	-	-	-	-	-	-	-	-	-	376	-	-	-	377
Hughes	-	-	-	-	6	-	-	-	-	-	-	17	119	-	-	-	144
Allakaket	-	-	-	-	-	-	-	-	-	-	-	-	76	-	-	-	76
Alatna	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
Bettles	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
District 4	-	-	-	32	5,754	701	2,445	-	1	-	-	17	1,191	-	-	-	10,152
Tanana	-	-	-	-	-	-	211	1,050	2,849	-	-	-	-	-	-	-	4,112
Rampart	-	-	-	-	-	-	-	-	-	1,857	-	-	-	-	-	-	1,857
Stevens Village	-	-	-	-	-	-	-	-	-	435	311	-	-	-	-	-	747
Birch Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
Beaver	-	-	-	-	-	-	-	-	-	-	1,368	-	-	-	-	-	1,368
Fort Yukon	-	-	-	-	-	-	-	-	-	-	2,360	-	-	-	-	-	2,361
Venetie	-	-	-	-	-	-	-	-	-	-	28	-	-	-	-	-	28
Chalkyitsik	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
District 5	-	-	-	-	-	-	211	1,050	2,849	2,292	4,067	-	-	-	-	-	10,472
Survey Totals	1,571	6,850	12,482	6,107	5,754	701	2,788	1,050	2,850	2,292	4,067	159	1,191	0	0	0	47,886

* Totals may not appear to be correct due to decimal rounding.

Table 12. Estimated subsistence harvest of summer chum salmon by fishing location in surveyed villages, Yukon Area, 2001*

COMMUNITY	Coastal District	Districts			Subdistricts					River Drainages				Total by Community			
		1	2	3	4A	4B	4C	5A	5B	5C	5D	Innoko	Koyukuk		Chandalar	Porcupine	Black
Hooper Bay	1,131	11,462	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12,593
Scammon Bay	-	1,323	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,323
Coastal District	1,131	12,784	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13,915
Sheldon's Point	40	1,902	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,942
Alakanuk	-	5,992	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,992
Emmonak	-	6,777	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,777
Kotlik	3,150	2,912	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,062
District 1	3,189	17,583	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20,773
Mountain Village	-	2,684	5,800	-	-	-	-	-	-	-	-	-	-	-	-	-	8,484
Pitkas Point	-	96	765	-	-	-	-	-	-	-	-	-	-	-	-	-	862
St. Mary's	-	-	10,026	-	-	-	-	-	-	-	-	-	-	-	-	-	10,026
Pilot Station	-	-	3,632	-	-	-	-	-	-	-	-	-	-	-	-	-	3,633
Marshall	-	-	1,600	-	-	-	-	-	-	-	-	-	-	-	-	-	1,601
District 2	-	2,779	21,825	-	-	-	-	-	-	-	-	-	-	-	-	-	24,605
Russian Mission	-	-	163	-	-	-	-	-	-	-	-	-	-	-	-	-	163
Holy Cross	-	-	460	-	-	-	-	-	-	-	-	-	-	-	-	-	460
Shageluk	-	-	13	-	-	-	-	-	-	-	-	671	-	-	-	-	684
District 3	-	-	635	-	-	-	-	-	-	-	-	671	-	-	-	-	1,308
Anvik	-	-	-	94	-	-	-	-	-	-	-	-	-	-	-	-	94
Grayling	-	-	-	92	-	-	-	-	-	-	-	-	-	-	-	-	92
Kaitag	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	10
Nulato	-	-	-	208	-	-	-	-	-	-	-	-	-	-	-	-	208
Koyukuk	-	-	-	108	1	-	-	-	-	9	-	-	-	-	-	-	118
Galena	-	-	-	11	-	-	31	-	-	-	-	-	-	-	-	-	53
Ruby	-	-	-	-	486	-	539	-	-	-	-	-	-	-	-	-	1,025
Huslia	-	-	-	-	-	-	-	-	-	-	-	-	833	-	-	-	833
Hughes	-	-	-	1	-	-	-	-	-	-	-	100	450	-	-	-	551
Allakaket	-	-	-	-	-	-	-	-	-	-	-	-	1,603	-	-	-	1,604
Alatna	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
Bettles	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
District 4	-	-	-	495	487	570	-	-	-	-	-	100	2,906	-	-	-	4,588
Tanana	-	-	-	-	-	-	-	553	853	-	-	-	-	-	-	-	1,407
Rampart	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
Stevens Village	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
Birch Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
Beaver	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	328
Fort Yukon	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	289
Venetie	-	-	-	-	-	-	-	-	-	-	-	-	-	-	106	-	106
Chalkyitsik	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
District 6	-	-	-	-	-	-	-	554	852	-	617	-	-	-	106	-	2,129
Survey Totals	4,349	33,147	21,825	635	495	487	570	553	852	-	617	771	2,906	106	-	-	67,318

* Totals may not appear to be correct due to decimal rounding.

Table 13. Estimated subsistence harvest of fall chum salmon by fishing location in surveyed villages, Yukon Area, 2001*

	Coastal	Districts			Subdistricts							River Drainages					Total by
COMMUNITY	District	1	2	3	4A	4B	4C	5A	5B	5C	5D	Innoko	Koyukuk	Chandalar	Porcupine	Black	Community
Hooper Bay	4	360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	364
Scammon Bay	-	195	-	-	-	-	-	-	-	-	-	-	-	-	-	-	195
Coastal District	4	555	-	-	-	-	-	-	-	-	-	-	-	-	-	-	560
Sheldon's Point	-	176	-	-	-	-	-	-	-	-	-	-	-	-	-	-	176
Alakanuk	-	760	-	-	-	-	-	-	-	-	-	-	-	-	-	-	761
Emmonak	-	273	-	-	-	-	-	-	-	-	-	-	-	-	-	-	273
Kotlik	245	287	-	-	-	-	-	-	-	-	-	-	-	-	-	-	533
District 1	245	1,497	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,744
Mountain Village	-	-	130	-	-	-	-	-	-	-	-	-	-	-	-	-	131
Pitkas Point	-	24	9	-	-	-	-	-	-	-	-	-	-	-	-	-	34
St. Mary's	-	-	227	-	-	-	-	-	-	-	-	-	-	-	-	-	227
Pilot Station	-	-	29	-	-	-	-	-	-	-	-	-	-	-	-	-	30
Marshall	-	-	1,003	-	-	-	-	-	-	-	-	-	-	-	-	-	1,003
District 2	-	24	1,399	-	-	-	-	-	-	-	-	-	-	-	-	-	1,424
Russian Mission	-	-	-	76	-	-	-	-	-	-	-	-	-	-	-	-	76
Holy Cross	-	-	-	624	-	-	-	-	-	-	-	-	-	-	-	-	624
Shageluk	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
District 3	-	-	-	700	-	-	-	-	-	-	-	-	-	-	-	-	700
Anvik	-	-	-	-	29	-	-	-	-	-	-	-	-	-	-	-	29
Grayling	-	-	-	-	312	-	-	-	2	-	-	-	-	-	-	-	314
Kaltag	-	-	-	-	113	-	-	-	-	-	-	-	-	-	-	-	113
Nulato	-	-	-	-	151	-	-	-	-	-	-	-	-	-	-	-	151
Koyukuk	-	-	-	-	403	56	-	-	-	-	-	-	58	-	-	-	517
Galena	-	-	-	-	-	-	358	-	-	-	-	-	61	-	-	-	420
Ruby	-	-	-	-	-	-	580	-	-	-	-	-	-	-	-	-	581
Huslia	-	-	-	-	-	-	-	-	-	-	-	-	682	-	-	-	683
Hughes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
Allakaket	-	-	-	-	-	-	-	-	-	-	-	-	50	-	-	-	50
Alatna	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
Bettles	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
District 4	-	-	-	-	1,008	56	938	-	2	-	-	-	852	-	-	-	2,858
Tanana	-	-	-	-	90	-	-	709	8,980	-	-	-	-	-	-	-	9,779
Rampart	-	-	-	-	-	-	17	-	-	165	-	-	-	-	-	-	183
Stevens Village	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
Birch Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
Beaver	-	-	-	-	-	-	-	-	-	-	21	-	-	-	-	-	21
Fort Yukon	-	-	-	-	-	-	-	-	-	-	2,209	-	-	-	-	-	2,209
Venetie	-	-	-	-	-	-	-	-	-	-	-	-	-	3,286	-	-	3,286
Chalkyitsik	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	73	73
District 5	-	-	-	-	90	-	17	709	8,980	165	2,230	-	-	3,286	-	73	15,552
Survey Totals	249	2,076	1,399	700	1,098	56	955	709	8,983	165	2,230	0	852	3,286	0	73	22,837

* Totals may not appear to be correct due to decimal rounding.

Table 14. Estimated subsistence harvest of coho salmon by fishing location in surveyed villages, Yukon Area, 2001 *

COMMUNITY	Coastal District	Districts			Subdistricts					River Drainages				Total by Community			
		1	2	3	4A	4B	4C	5A	5B	5C	5D	Innoko	Koyukuk		Chandalar	Porcupine	Black
Hooper Bay	432	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	439
Scammon Bay	-	63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63
Coastal District	432	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	503
Sheldon's Point	-	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32
Alakanuk	-	242	-	-	-	-	-	-	-	-	-	-	-	-	-	-	242
Emmonak	-	145	-	-	-	-	-	-	-	-	-	-	-	-	-	-	145
Kotlik	179	184	-	-	-	-	-	-	-	-	-	-	-	-	-	-	363
District 1	179	604	-	-	-	-	-	-	-	-	-	-	-	-	-	-	783
Mountain Village	-	23	98	-	-	-	-	-	-	-	-	-	-	-	-	-	121
Pitkas Point	-	-	111	-	-	-	-	-	-	-	-	-	-	-	-	-	112
St. Mary's	-	-	609	-	-	-	-	-	-	-	-	-	-	-	-	-	610
Pilot Station	-	-	42	-	-	-	-	-	-	-	-	-	-	-	-	-	42
Marshall	-	-	72	-	-	-	-	-	-	-	-	-	-	-	-	-	73
District 2	-	22	934	-	-	-	-	-	-	-	-	-	-	-	-	-	957
Russian Mission	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
Holy Cross	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
Shageluk	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
District 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
Anvik	-	-	-	13	-	-	-	-	-	-	-	-	-	-	-	-	13
Grayling	-	-	-	144	-	-	-	-	-	-	-	-	-	-	-	-	144
Kallag	-	-	-	282	-	-	-	-	-	-	-	-	-	-	-	-	282
Nulato	-	-	-	258	-	-	-	-	-	-	-	-	-	-	-	-	258
Koyukuk	-	-	-	30	25	-	-	-	-	-	-	-	24	-	-	-	80
Galena	-	-	-	-	-	-	81	-	-	-	-	-	61	-	-	-	142
Ruby	-	-	-	-	-	-	871	-	-	-	-	-	-	-	-	-	871
Huslia	-	-	-	-	-	-	-	-	-	-	-	-	83	-	-	-	83
Hughes	-	-	-	-	-	-	-	-	-	-	-	-	117	-	-	-	117
Allakaket	-	-	-	-	-	-	-	-	-	-	-	-	25	-	-	-	25
Alatna	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
Bettles	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
District 4	-	-	-	727	25	951	-	-	-	-	-	-	311	-	-	-	2,016
Tanana	-	-	-	-	-	-	-	1,800	4,875	-	-	-	-	-	-	-	6,675
Rampart	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
Stevens Village	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
Birch Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
Beaver	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
Fort Yukon	-	-	-	-	-	-	-	-	-	-	-	972	-	-	-	-	972
Venetie	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	10
Chalkyitsik	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
District 5	-	-	-	-	-	-	-	1,800	4,875	-	-	972	-	-	10	4	7,661
Survey Totals	611	697	934	-	727	25	951	1,800	4,875	-	-	972	-	311	10	4	11,920

* Totals may not appear to be correct due to decimal rounding.

Table 15. Household responses characterizing quality of subsistence salmon fishing and whether subsistence salmon needs were met, Yukon Area, 2001.

Community	Number of households that responded to whether their needs were met	Percentage of households that responded that their needs were met	Percentage of households that responded that their needs were NOT met	Number of households that responded to the quality of the salmon run	Percent of Households Reporting Quality of Subsistence Fishing							
					Chinook		Summer Chum		Fall Chum		Coho	
					Very Good or Average	Very Poor	Very Good or Average	Very Poor	Very Good or Average	Very Poor	Very Good or Average	Very Poor
Hooper Bay	68	60%	40%	37	100%	0%	100%	0%	-	-	100%	0%
Scammon Bay	22	45%	55%	13	77%	23%	55%	45%	67%	33%	67%	33%
Coastal District	90	57%	43%	50	84%	8%	89%	11%	67%	33%	80%	20%
Sheldon's Point	25	28%	72%	13	54%	46%	46%	54%	100%	0%	-	-
Alakanuk	43	33%	67%	13	62%	38%	70%	30%	0%	100%	0%	100%
Emmonak	60	47%	53%	25	72%	28%	76%	24%	50%	50%	33%	67%
Kotlik	21	48%	52%	20	70%	30%	60%	40%	57%	43%	57%	43%
District 1	149	40%	60%	71	66%	34%	63%	37%	50%	50%	45%	55%
Mountain Village	40	58%	43%	28	86%	14%	75%	25%	50%	50%	50%	50%
Pitkas Point	19	58%	42%	12	58%	42%	73%	27%	0%	100%	50%	50%
St. Mary's	40	68%	33%	34	76%	24%	78%	22%	100%	0%	100%	0%
Pilot Station	38	53%	47%	19	84%	16%	76%	24%	100%	0%	-	-
Marshall	18	67%	33%	15	80%	20%	70%	30%	100%	0%	-	-
District 2	155	60%	40%	108	79%	21%	75%	25%	76%	24%	71%	29%
Russian Mission	17	65%	35%	9	78%	22%	50%	50%	100%	0%	100%	0%
Holy Cross	25	44%	56%	11	73%	27%	0%	100%	100%	0%	-	-
Shageluk	26	31%	69%	6	67%	33%	75%	25%	-	-	-	-
District 3	68	44%	56%	26	73%	27%	44%	56%	100%	0%	100%	0%
Anvik	31	35%	65%	13	54%	46%	0%	100%	100%	0%	-	-
Grayling	20	55%	45%	16	75%	25%	38%	63%	25%	75%	100%	0%
Kaltag	20	60%	40%	12	92%	8%	100%	0%	100%	0%	100%	0%
Nulato	30	43%	57%	19	89%	11%	0%	100%	50%	50%	67%	33%
Koyukuk	22	64%	36%	10	100%	0%	100%	0%	50%	50%	67%	33%
Galena	52	38%	62%	17	71%	29%	50%	50%	100%	0%	75%	25%
Ruby	18	67%	33%	9	89%	11%	50%	50%	100%	0%	100%	0%
Huslia	19	26%	74%	5	60%	40%	33%	67%	67%	33%	50%	50%
Hughes	20	30%	70%	5	100%	0%	100%	0%	100%	0%	100%	0%
Allakaket	19	21%	79%	8	63%	38%	86%	14%	50%	50%	100%	0%
Alatna	1	0%	100%	1	0%	100%	-	-	0%	100%	-	-
Bettles	17	6%	94%	0	-	-	-	-	-	-	-	-
District 4	269	41%	59%	115	78%	22%	54%	46%	65%	35%	80%	20%
Tanana	32	44%	56%	18	89%	11%	86%	14%	63%	38%	100%	0%
Rampart	5	80%	20%	4	100%	0%	100%	0%	100%	0%	-	-
Stevens Village	17	59%	41%	11	100%	0%	-	-	-	-	-	-
Birch Creek	7	0%	100%	1	0%	100%	-	-	-	-	-	-
Beaver	10	50%	50%	4	50%	50%	-	-	100%	0%	-	-
Fort Yukon	41	39%	61%	17	59%	41%	0%	100%	45%	55%	57%	43%
Venetie	15	7%	93%	2	0%	100%	0%	100%	0%	100%	0%	100%
Chalkyitsik	27	4%	96%	1	0%	100%	0%	100%	0%	100%	0%	100%
District 5	154	33%	67%	57	75%	25%	50%	50%	50%	50%	69%	31%
Survey Totals	885	44%	56%	427	78%	22%	70%	30%	62%	38%	70%	30%

Table 16. Reported subsistence and personal use fish harvested under the authority of a permit, listed by permit area, Yukon Area, 2001. ^a

Permit Fishing Area	Permit			Percent Returned	Number of Permits Returned that Fished	Reported Harvest									
	Type	Issued	Returned			Chinook	Summer Chum	Fall Chum	Coho	Whitefish	Sheefish	Burbot	Pike	Suckers	Grayling
Subsistence Use															
Yukon River near Haul Road Bridge	SY	65	60	92%	36	1,819	176	0	13	9	3	10	1	0	0
Yukon River near Circle and Eagle	SE	98	90	92%	32	1,688	561	5,322	0	111	22	7	65	11	21
Tanana River Subdistrict 6A	SA	22	20	91%	10	398	327	1,330	2,637	6	0	0	11	0	0
Tanana River Subdistrict 6B	SB	87	77	89%	42	1,511	74	1,983	5,646	651	24	29	24	48	0
Tanana River Upstream of Subdistrict 6C	SU	57	47	82%	21	0	0	2	1	993	10	21	108	38	18
Kantishna River Subdistrict 6A	SK	4	4	100%	4	0	0	211	682	40	0	3	27	56	0
Tolovana River Pike Subdistrict 6B	ST	50	38	76%	17	4	0	0	0	100	16	54	214	83	12
Whitefish/ Sucker	SW	2	2	100%	1	Catch Confidential									
Subsistence Permit Subtotals		385	338	88%	163	5,420	1,138	8,848	8,979	2,410	75	124	450	236	51
Personal Use															
Tanana River Subdistrict 6C	PC	54	51	94%	24	122	146	10	34	20	0	0	1	0	0
Tanana River Whitefish Upstream of Subdistrict 6C	PW	4	3	75%	0	-	-	-	-	-	-	-	-	-	-
Personal Use Permit Subtotals		58	54	93%	24	122	146	10	34	20	0	0	1	0	0
Permit Totals		443	392	88%	187	5,542	1,284	8,858	9,013	2,430	75	124	451	236	51

^a As of February 28, 2002.

Table 17. Reported subsistence and personal use fish harvested under the authority of a permit, listed by fishery, by community of residence, and by drainage, Yukon Area, 2001. ^a

Community	Harvest by Drainage	Permits		Percent Returned	Number of Permits Returned that Fished	Reported Harvest									
		Issued	Returned			Chinook	Summer Chum	Fall Chum	Coho	Whitefish	Sheefish	Burbot	Pike	Sucker	Grayling
Subsistence Use Permit															
Central	Yukon River	9	8	89%	3	84	0	0	0	0	0	0	0	0	20
Circle	Yukon River/ Birch Creek	19	18	95%	6	447	6	2,588	0	4	0	1	0	0	0
	Circle Subtotal	19	18	95%	6	447	6	2,588	0	4	0	1	0	0	0
Eagle	Yukon River	52	48	92%	19	1,033	555	2,714	0	74	22	6	15	11	1
FNSB ^b	Yukon River	54	52	96%	31	1,125	165	0	11	9	3	10	1	0	0
	Tolovana/ Kantishna River	15	13	87%	4	0	0	0	0	0	0	12	25	0	12
	Tanana River	17	15	88%	11	191	36	191	68	97	1	1	5	0	0
	FNSB Subtotal	86	80	93%	46	1,316	201	191	79	106	4	23	31	0	12
Healy	Tanana/ Kantishna River	7	7	100%	5	0	0	853	1,817	225	15	27	3	3	0
	Healy Subtotal	7	7	100%	5	0	0	853	1,817	225	15	27	3	3	0
Manley	Tanana/ Yukon Rivers	16	14	88%	9	534	338	1,230	2,637	1	0	0	6	0	0
Minto	Yukon River	5	3	60%	0	-	-	-	-	-	-	-	-	-	-
	Tolovana River	35	26	74%	14	4	0	0	0	100	16	42	214	83	0
	Tanana River	32	30	94%	13	193	19	251	0	29	8	0	9	12	0
	Minto Subtotal	72	59	82%	27	197	19	251	0	129	24	42	223	95	0
Nenana	Yukon River	3	2	67%	2	278	0	0	0	0	0	0	0	0	0
	Tanana/ Kantishna Rivers	39	33	85%	19	1,127	19	999	4,443	420	0	4	14	89	0
	Nenana Subtotal	42	35	83%	21	1,405	19	999	4,443	420	0	4	14	89	0
Stevens Village	Yukon River	4	4	100%	4	364	0	20	2	33	0	0	50	0	0
Upper Tanana Villages (UTV) ^c	Yukon River	12	11	92%	1	0	0	0	0	0	0	0	0	0	0
	Tanana River	54	44	81%	18	0	0	2	1	918	10	21	41	38	18
	UTV Subtotal	66	55	83%	19	0	0	2	1	918	10	21	41	38	18
Other ^d	Yukon River/ Birch Creek	6	5	83%	2	40	0	0	0	500	0	0	0	0	0
	Tanana/ Tolavana Rivers	6	5	83%	2	0	0	0	0	0	0	0	67	0	0
	Other Subtotal	12	10	83%	4	40	0	0	0	500	0	0	67	0	0
Subsistence Use Permit Subtotals		385	338	88%	163	5,420	1,138	8,848	8,979	2,410	75	124	450	236	51
Personal Use Permit															
FNSB/ Delta Junc	Tanana River	58	54	93%	24	122	146	10	34	20	0	0	1	0	0
Personal Use Permit Subtotals		58	54	93%	24	122	146	10	34	20	0	0	1	0	0
Permit Totals		443	392	88%	187	5,542	1,284	8,858	9,013	2,430	75	124	451	236	51

^a As of February 28, 2001.^b Fairbanks North Star Borough (FNSB) includes residents from the communities of College, Eielson Air Force Base, Ester, Fairbanks, Ft. Wainwright, North Pole, and Salcha.^c Upper Tanana Villages include residents from the communities of Delta Junction, Dot Lake, Northway, Tanacross, and Tok.^d The category "other" represents residents from any other Alaskan community who were issued a subsistence fishing permit.

Figure 1. The Yukon Area showing communities and fishing districts, 2001.

Figure 2. Yukon Area post season subsistence salmon harvest survey form, 2001.

Community _____
 Date of Survey _____
 Interviewer _____

HHID# _____
 Person Interviewed _____
 Relation to HH _____

**2001 Post-Season Subsistence Salmon Harvest Survey Yukon Area
 CONFIDENTIAL INFORMATION**

1. We would like to make sure we have the correct name and address for your household.

Head of Household _____
 Mailing Address _____ Telephone: _____
 Permanent Note _____
 Significant Other _____
 Permanent Note _____

Adult household member was contacted and declined to be interviewed. [] Reason given: _____

2. Did anyone in your household catch salmon for subsistence use this year? YES NO (If no go to area II.)
 Subsistence use includes salmon eaten fresh, frozen, dried, smoked, and those used for dog food.

I. HOUSEHOLDS THAT FISHED

3. May I have your salmon catch calendar?

Picked up by surveyor _____ Didn't get one _____ Didn't use _____ Not available _____ Already sent in _____
 If you used a calendar are all the fish harvested on it? Yes _____ No _____ (if no, estimate remainder on calendar)

4. How many total salmon did you or your fishing group catch this year? (group may include other households)

CHINOOK _____ SUMMER CHUM _____ FALL CHUM _____ COHO _____ PINK _____

5. How many households help catch these fish? _____ (Names) _____

- **6. How many total salmon did your household catch for subsistence purposes this year?****

(Include only fish caught by this household, not the group.)

CHINOOK _____ SUMMER CHUM _____ FALL CHUM _____ COHO _____ PINK _____

7. How many salmon did you keep for your household's use? (Do not include fish given to other households)

CHINOOK _____ SUMMER CHUM _____ FALL CHUM _____ COHO _____ PINK _____

8. Did your household share the salmon catch with any other households? (Names, HHIDs, Species and Numbers)

9. Where do you catch your subsistence salmon? (circle all that apply and record harvest by area if more than one)

Ocean 1 2 3 4A 4B 4C 5A 5B 5C 5D Innoko Koyukuk Chandalar Porcupine Black

Area _____ CHINOOK _____ SUMMER CHUM _____ FALL CHUM _____ COHO _____ PINK _____

Area _____ CHINOOK _____ SUMMER CHUM _____ FALL CHUM _____ COHO _____ PINK _____

10. What is your households' primary type of salmon fishing gear? (In order of importance 1= primary)

Set net _____ Drift net _____ Fish Wheel _____ Hook & Line _____ Other _____

Figure 2. (page 2 of 2).

II. ALL HOUSEHOLDS				
11. Did your household catch any other fish besides salmon? Yes _____ No _____ (Harvest numbers should include from Sept/Oct of last year to now.) (lrg whitefish are 4 lbs or greater)				
LG WHITEFISH _____	SM WHITEFISH _____	SHEEFISH _____	BURBOT _____	PIKE _____
BLACKFISH _____	GRAYLING _____	SUCKERS _____	TROUT (Arctic Char) _____	
EELS (Lamprey) _____	TOMCOD (Saffron) _____			
12. Was your household given any salmon? Yes _____ No _____ Code: S=Subsistence & T=Test Fish				
Code: _____ Fishermen/Project (Name) _____				
CHINOOK _____	SUMMER CHUM _____	FALL CHUM _____	COHO _____	PINK _____
Code: _____ Fishermen/Project (Name) _____				
CHINOOK _____	SUMMER CHUM _____	FALL CHUM _____	COHO _____	PINK _____
13. How many people live in your household? _____				
14. How many dogs (including puppies) does your household have? _____ (If none go to question 17)				
15. Do you feed whole salmon to your dogs? Yes _____ No _____ Only Feed Scraps _____ (If no go to question 17)				
16. Estimate harvest of salmon put up for dogs this year by fishery: (Numbers should represent whole fish, not scraps.)				
CHINOOK _____	SUMMER CHUM _____	FALL CHUM _____	COHO _____	PINK _____
17. Did your household get enough subsistence salmon this year? Yes _____ No _____ Could not estimate _____				
18. How was subsistence salmon fishing for your household this year?				
King:	_____ Very Good	_____ Average	_____ Very Poor	If Poor, why? _____
Summer Chum:	_____ Very Good	_____ Average	_____ Very Poor	If Poor, why? _____
Fall Chum:	_____ Very Good	_____ Average	_____ Very Poor	If Poor, why? _____
Coho:	_____ Very Good	_____ Average	_____ Very Poor	If Poor, why? _____
Additional Comments: _____				

THANK YOU FOR YOUR HELP. THIS INFORMATION IS USED TO DOCUMENT THE SUBSISTENCE SALMON HARVEST WITHIN THE YUKON RIVER DRAINAGE AND TO TRY TO MAKE SURE THERE WILL BE ENOUGH SALMON FOR THE FUTURE. A SUMMARY OF THE SUBSISTENCE SALMON SURVEY WILL BE SENT OUT NEXT SPRING ALONG WITH THE HARVEST CALENDARS.

Interviewer, please note any comments about this interview or anything of value for assisting data analysis.

THIS HOUSEHOLD'S TOTAL SUBSISTENCE SALMON USE (Fill in this area after the interview.)
(Add numbers obtained from question 7 to numbers obtained from question 12.)

CHINOOK _____ SUMMER CHUM _____ FALL CHUM _____ COHO _____ PINK _____
Complete Survey _____ Partial Survey _____ No Survey _____

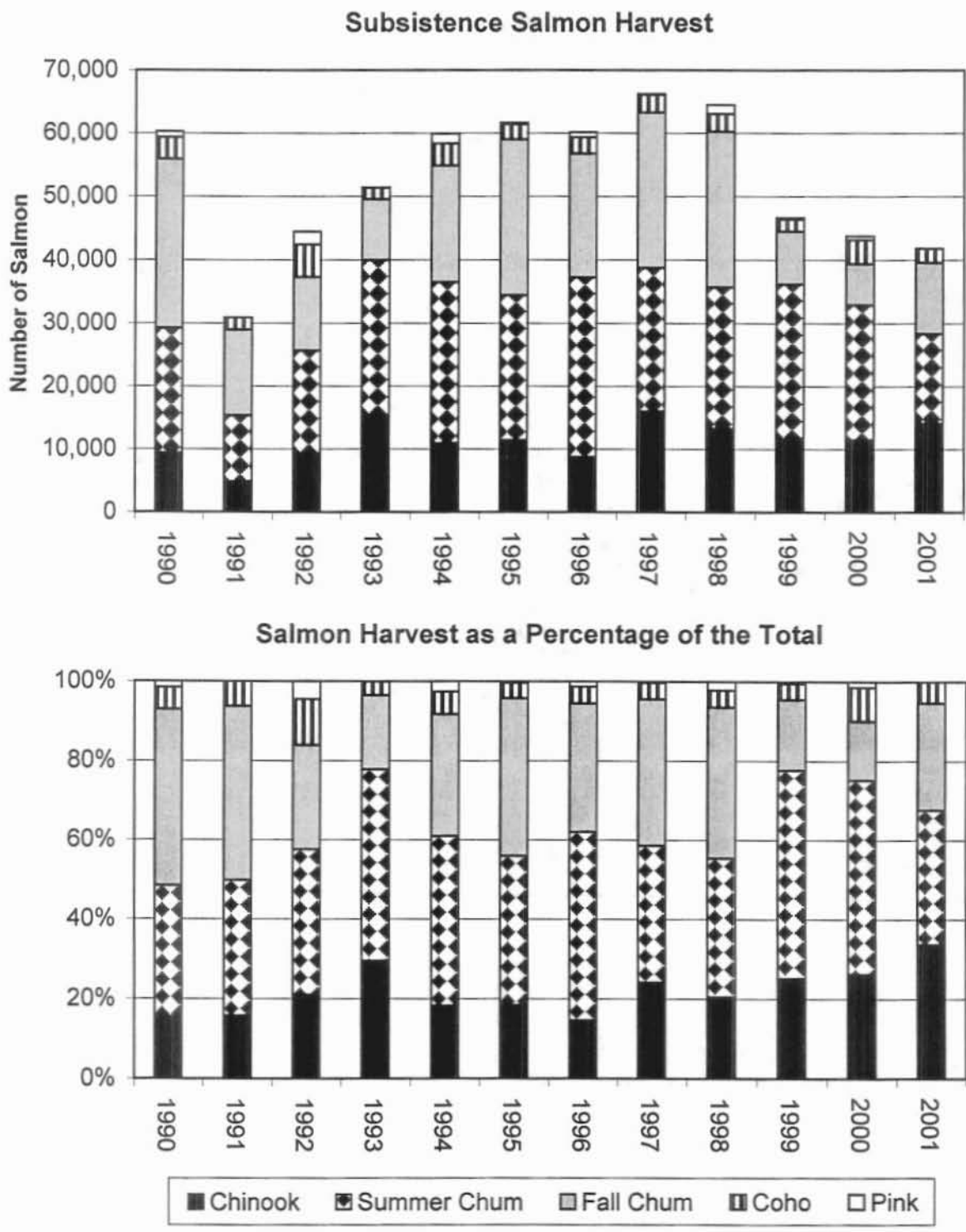


Figure 3. Yukon Area subsistence salmon harvest reported on catch calendars from 1990 to 2001.

5 AAC 99.015 JOINT BOARD NONSUBSISTENCE AREAS. (4) The Fairbanks Nonsubsistence Area is comprised of the following: within Unit 20(A) as defined by 5 AAC 92.450(20)(A) east of the Wood River drainage and south of the Rex Trail but including the upper Wood River drainage south of its confluence with Chicken Creek, within Unit 20(B) as defined by 5AAC 92.450(20)(B) the North Star Borough and that portion of the Washington Creek drainage east of the Elliot Highway, within 20(D) as defined by 5 AAC 92.450(20)(D) west of the Tanana River between its confluence's with the Johnson and Delta Rivers, west of the west bank of the Johnson River, and north and west of the Volkmar drainage, including the Goodpaster River drainage, and within Unit 25(C) as defined by 5 AAC 92.450(25)(C) the Preacher and Beaver Creek drainages.

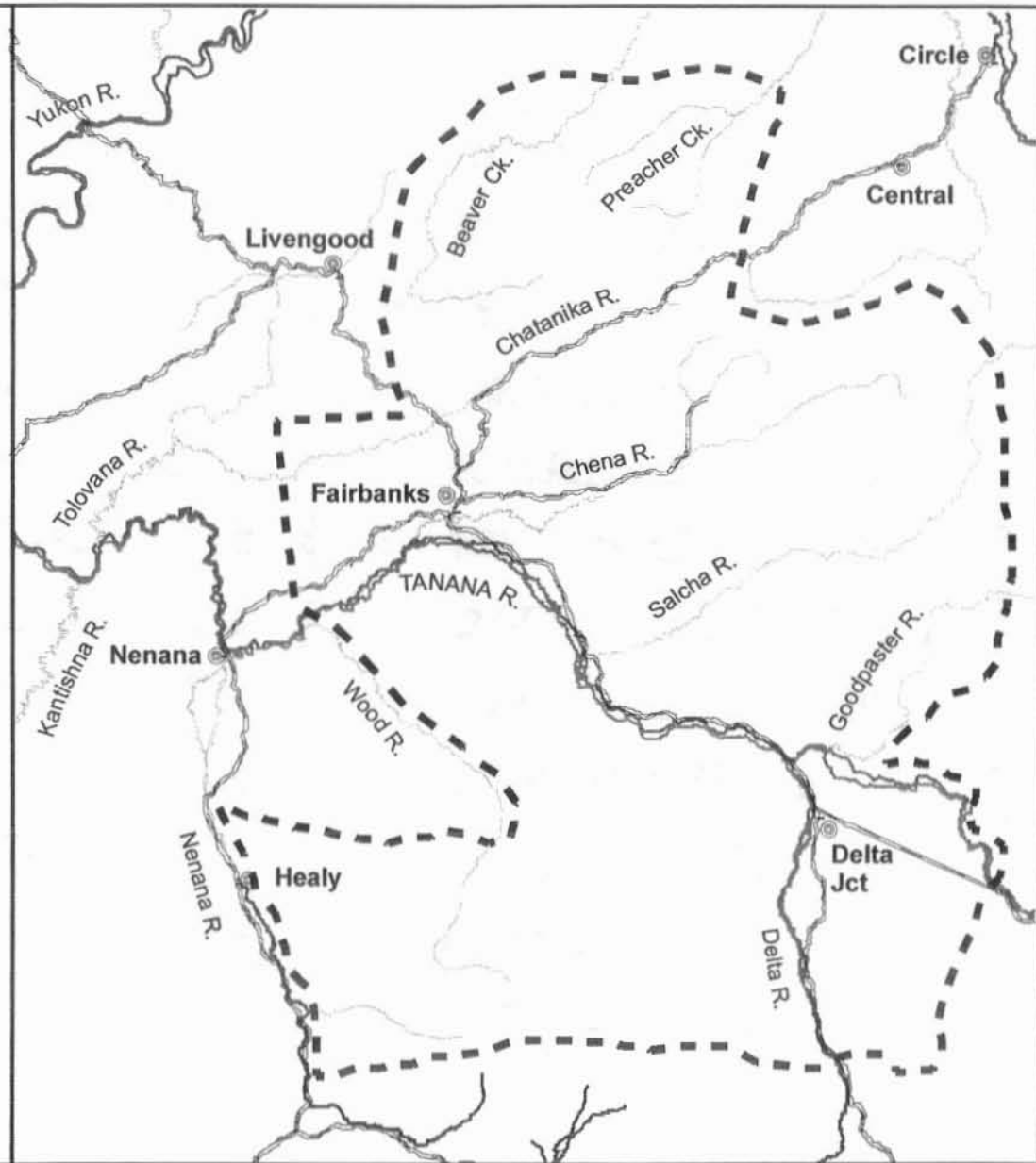


Figure 4. The Fairbanks Nonsubsistence Area, 2001.

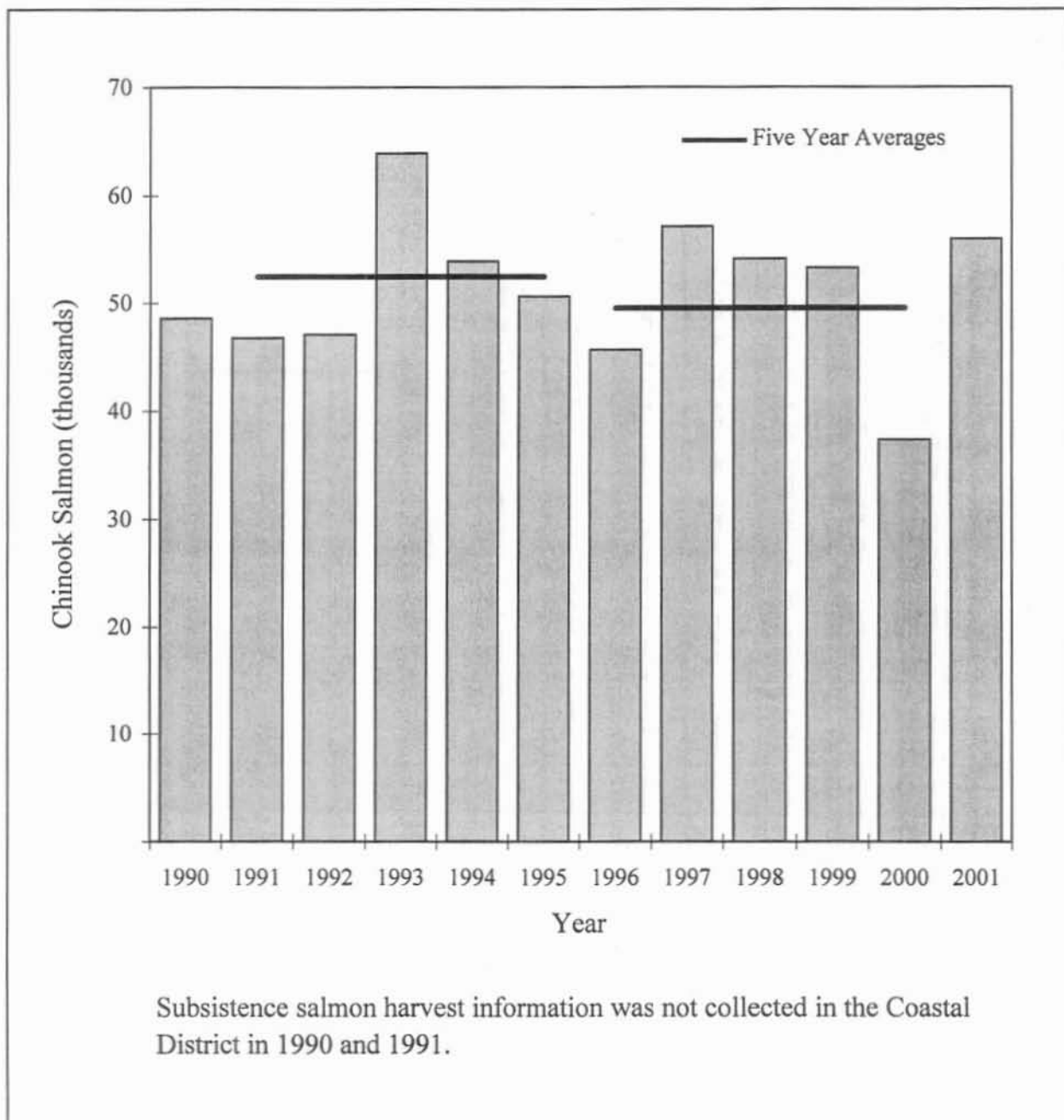
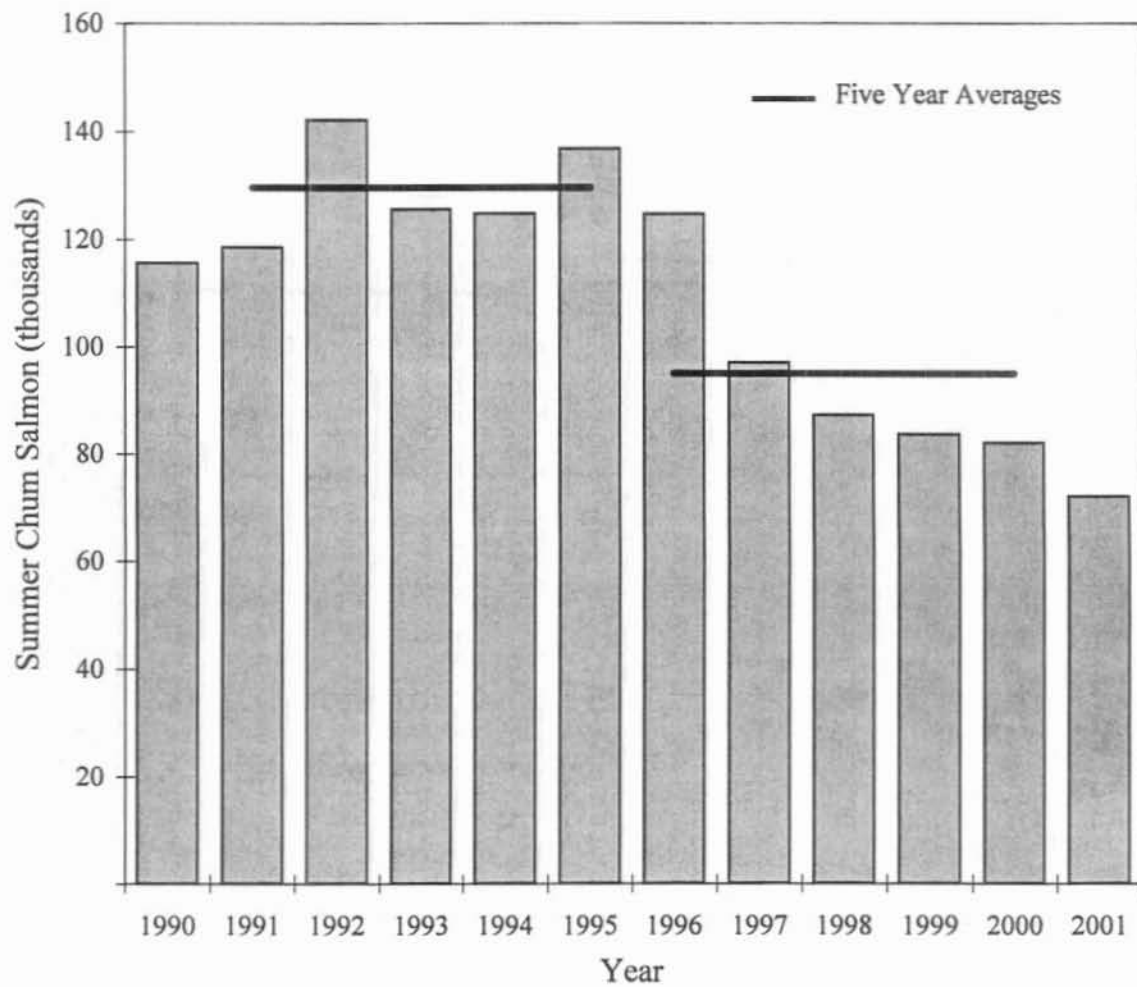


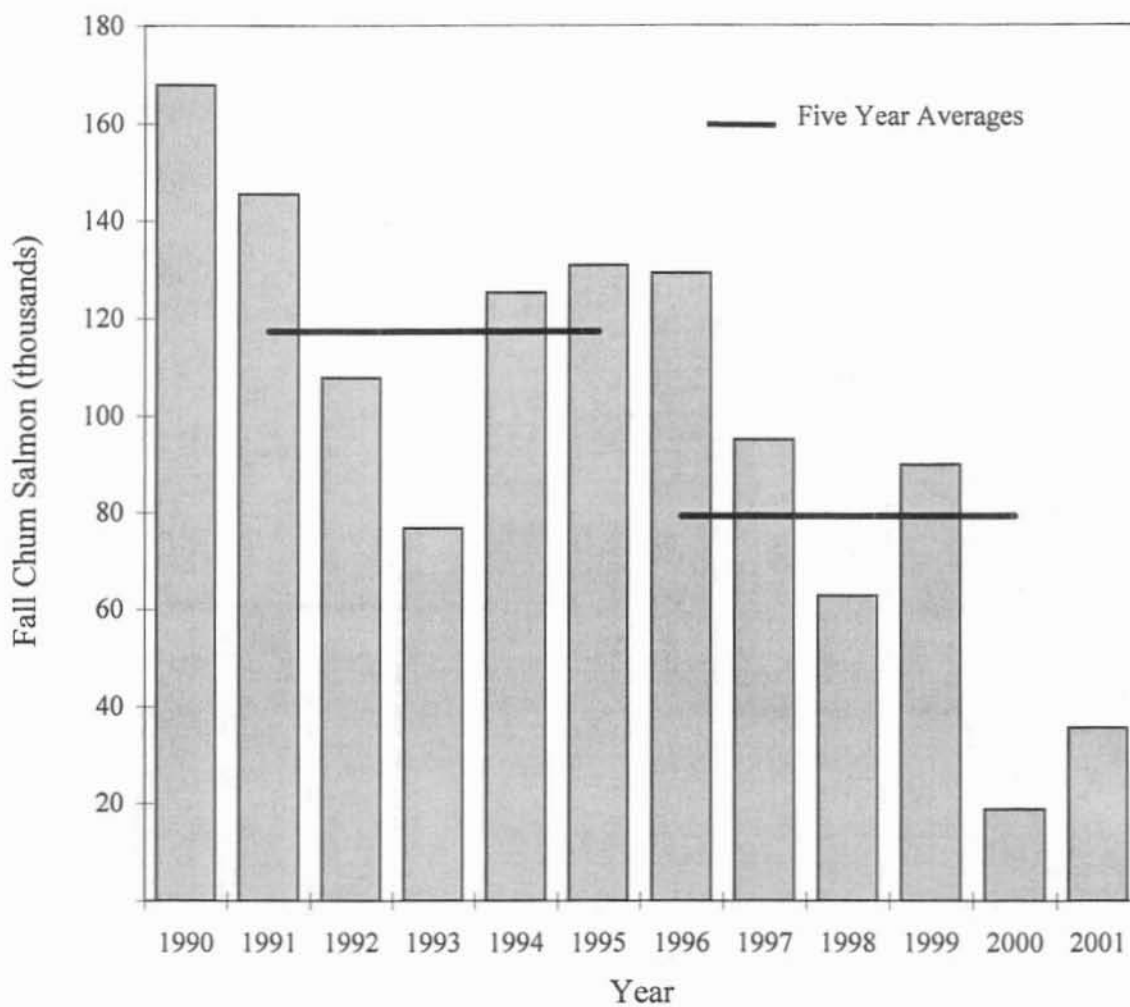
Figure 5. Estimated chinook salmon harvest in the subsistence fishery, Yukon Area, 1990 to 2001.



Summer chum salmon carcasses retained for subsistence use from the commercial fishery are not included.

Subsistence salmon harvest information was not collected in the Coastal District in 1990 and 1991.

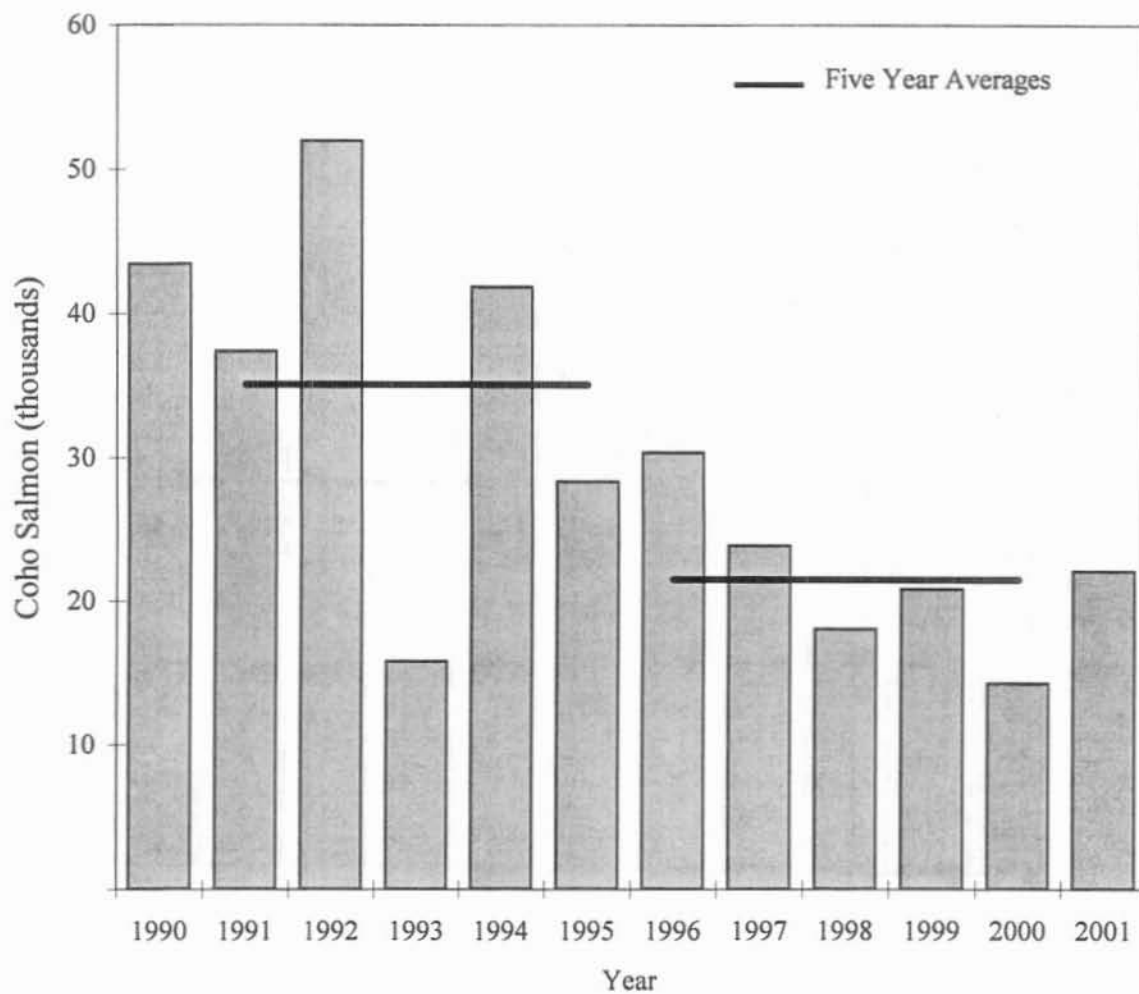
Figure 6. Estimated summer chum salmon harvest in the subsistence fishery, Yukon Area, 1990 to 2001.



Fall chum salmon carcasses retained for subsistence use from the commercial fishery are not included (most significant in 1995 and 1996).

Subsistence salmon harvest information was not collected in the Coastal District in 1990 and 1991.

Figure 7. Estimated fall chum salmon harvest in the subsistence fishery, Yukon Area, 1990 to 2001.



Subsistence salmon harvest information was not collected in the Coastal District in 1990 and 1991.

Figure 8. Estimated coho salmon harvest in the subsistence fishery, Yukon Area, 1990 to 2001.

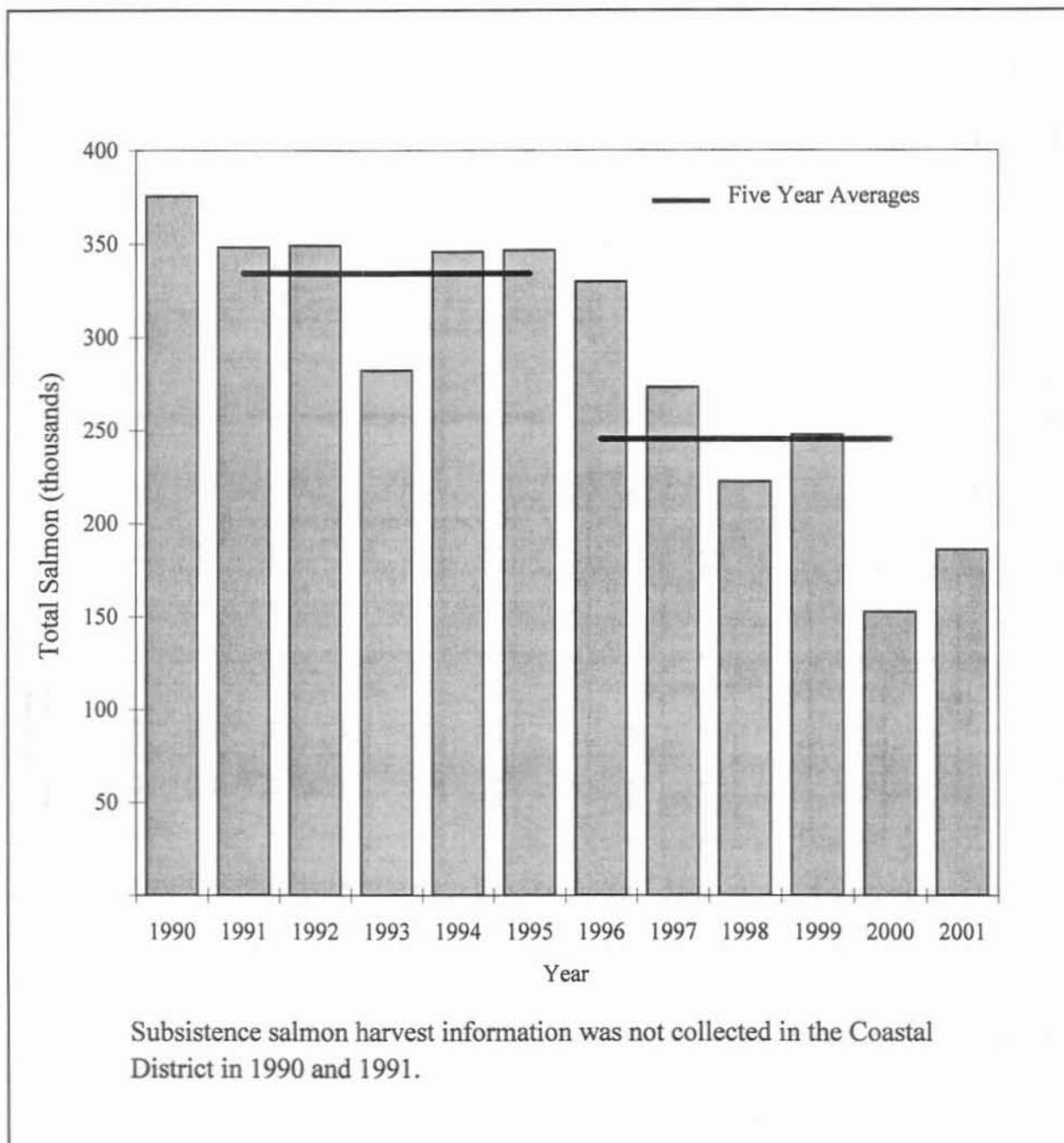


Figure 9. Estimated total salmon harvest in the subsistence fishery, Yukon Area, 1990 to 2001.

Appendix A.1. Estimated chinook salmon subsistence harvest by residents of surveyed villages, by harvest stratum, with village and district totals, Yukon Area, 2001. *

Community	Unknown				Does Not Harvest Salmon				Light Harvester				Medium Harvester				Heavy Harvester				Combined				
	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Total	Est	CI(95%)
Hooper Bay	12	5	12.6	4.8	90	25	6.9	2.0	91	23	8.3	1.7	18	13	32.8	7.9	2	2	10.5	0.0	213	68	2,150	560	
Scammon Bay	2	1	0.0	-	25	7	11.0	8.4	54	10	6.9	4.4	4	4	21.0	0.0	0	0	-	-	85	22	732	626	
Coastal District	14	6	10.8	4.1	115	32	7.8	2.4	145	33	7.8	2.0	22	17	30.7	6.5	2	2	10.5	0.0	298	90	2,881	840	
Sheldon's Point	2	1	0.0	-	6	4	0.0	0.0	22	17	17.8	2.5	4	4	39.3	0.0	1	0	-	-	35	26	550	110	
Alakanuk	10	6	9.0	3.7	45	9	0.0	0.0	80	21	8.1	2.1	9	9	25.8	0.0	0	0	-	-	144	45	973	347	
Emmonak	12	4	7.5	6.1	69	15	3.4	1.8	85	32	11.1	2.4	15	12	13.5	2.2	2	1	35.0	-	183	64	1,543	496	
Kotlik	1	0	-	-	28	6	15.2	9.2	54	11	16.7	8.1	10	7	40.1	6.3	2	2	190.0	0.0	95	26	2,109	1,002	
District 1	25	11	7.2	3.3	148	34	4.5	1.9	241	81	12.0	2.1	38	32	26.1	1.9	5	3	90.0	0.0	457	161	5,176	1,176	
Mountain Village	5	3	10.0	6.3	45	8	5.4	3.9	95	24	13.5	2.5	12	10	23.8	2.4	0	0	-	-	157	45	1,864	595	
Pitkas Point	1	0	-	-	6	5	10.0	4.1	18	15	31.5	3.5	2	2	11.5	0.0	0	0	-	-	27	22	651	135	
St. Mary's	8	2	11.0	3.5	42	10	23.4	11.6	61	12	22.4	4.8	17	15	69.0	4.6	2	2	102.0	0.0	130	41	3,815	1,130	
Pilot Station	2	1	0.0	-	37	10	17.5	7.2	59	28	21.4	4.0	5	5	28.2	0.0	0	0	-	-	103	44	2,053	702	
Marshall	2	1	73.0	-	17	4	0.0	0.0	54	13	66.8	11.1	7	6	102.2	6.4	0	0	-	-	80	24	4,471	1,181	
District 2	18	7	15.8	2.3	147	37	13.1	4.0	287	92	28.2	2.6	43	38	54.4	2.2	2	2	102.0	0.0	497	176	12,853	1,881	
Russian Mission	3	1	0.0	-	27	5	10.0	9.0	35	8	83.7	21.6	3	3	72.0	0.0	1	1	0.0	0.0	69	18	3,417	1,559	
Holy Cross	0	0	-	-	15	5	0.0	0.0	42	19	53.0	8.1	4	3	121.3	17.5	0	0	-	-	61	27	2,711	681	
Shageluk	5	3	5.0	3.2	9	5	1.4	0.9	14	11	6.8	1.7	3	3	11.0	0.0	6	5	9.4	3.8	37	27	222	74	
District 3	8	4	3.1	2.0	51	15	5.5	4.8	91	38	57.7	9.1	10	9	73.4	7.0	7	6	8.1	3.0	167	72	6,351	1,702	
Anvik	1	0	-	-	18	17	1.8	0.4	15	12	17.4	3.4	3	3	74.7	0.0	1	1	90.0	0.0	38	33	608	101	
Grayling	0	0	-	-	10	3	0.0	0.0	24	5	12.4	4.8	13	11	59.6	8.3	1	1	4.0	0.0	48	20	1,077	311	
Kaltag	2	0	-	-	7	5	0.0	0.0	46	12	27.3	5.9	5	5	49.8	0.0	0	0	-	-	60	22	1,506	533	
Nulato	1	0	-	-	46	11	16.1	8.0	43	12	24.1	6.4	8	8	34.8	0.0	1	1	70.0	0.0	99	32	2,127	904	
Koyukuk	1	1	0.0	0.0	12	8	0.6	0.4	19	13	16.0	4.0	1	0	-	-	2	2	68.0	0.0	35	24	449	152	
Galena	7	2	0.0	0.0	118	23	4.0	2.5	65	18	13.3	5.2	9	8	39.3	4.6	2	2	31.5	0.0	201	53	1,755	878	
Ruby	0	0	-	-	54	10	18.0	7.5	13	3	2.3	2.0	5	5	36.6	0.0	3	2	282.5	67.8	75	20	2,033	890	
Huslia	2	0	-	-	59	11	0.0	0.0	26	5	8.6	3.4	5	3	30.7	15.8	0	0	-	-	92	19	377	234	
Hughes	1	0	-	-	11	10	1.5	0.3	10	8	8.5	1.5	2	2	21.0	0.0	0	0	-	-	24	20	144	32	
Allakaket	2	1	0.0	-	26	7	0.0	0.0	16	5	2.0	0.9	5	5	7.6	0.0	1	1	6.0	0.0	50	19	76	28	
Alatna	0	0	-	-	3	1	0.0	-	4	2	0.0	0.0	0	0	-	-	0	0	-	-	7	3	0	0	
Bettles	5	2	0.0	0.0	21	12	0.0	0.0	2	2	0.0	0.0	2	2	0.0	0.0	0	0	-	-	30	18	0	0	
District 4	22	6	0.0	0.0	385	118	5.8	1.6	283	97	15.5	1.9	58	52	39.6	2.4	11	10	110.6	19.0	759	283	10,152	1,688	
Tanana	9	0	-	-	65	12	8.3	4.5	18	7	7.1	5.5	9	7	48.6	7.3	12	11	250.8	24.2	113	37	4,112	844	
Rampart	1	0	-	-	11	5	36.0	11.6	1	0	-	-	6	2	243.5	153.1	0	0	-	-	19	7	1,857	1,818	
Stevens Village	4	0	-	-	15	6	3.3	1.6	11	5	36.4	13.8	5	4	59.3	16.5	1	0	-	-	36	15	747	342	
Birch Creek	0	0	-	-	6	5	0.0	0.0	7	4	0.0	0.0	0	0	-	-	0	0	-	-	13	9	0	0	
Beaver	1	0	-	-	15	7	11.0	7.8	8	4	18.5	8.6	5	1	211.0	-	0	0	-	-	29	12	1,368	266	
Fort Yukon	0	0	-	-	109	24	6.2	3.5	48	11	18.0	6.6	13	9	63.1	8.4	1	1	0.0	0.0	171	45	2,361	1,001	
Venetie	4	2	0.0	0.0	35	6	0.0	0.0	6	4	0.0	0.0	2	2	14.0	0.0	1	1	0.0	0.0	48	15	28	0	
Chalkyitsik	0	0	-	-	27	20	0.0	0.0	6	5	0.0	0.0	3	2	0.0	0.0	0	0	-	-	36	27	0	0	
District 5	19	2	0.0	0.0	283	85	6.4	1.8	105	40	14.7	3.5	43	27	95.3	21.7	15	13	200.7	19.0	465	167	10,472	2,282	
Survey Totals	106	36	6.0	1.0	1,129	321	6.9	1.0	1,152	381	20.2	1.2	214	175	52.0	4.5	42	36	118.0	8.4	2,643	949	47,886	4,072	

* The total number of households (N), the number of households contacted (n), standard error (SE), and includes 95 percent confidence interval, CI (95%). Dashes indicate indefinable values.

Appendix A.2. Estimated summer chum salmon subsistence harvest by residents of surveyed villages, by harvest stratum, with village and district totals, Yukon Area, 2001. ^a

Community	Unknown				Does Not Harvest Salmon				Light Harvester				Medium Harvester				Heavy Harvester				Combined			
																					Total		Est	
	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Total	CI(95%)
Hooper Bay	12	5	53.2	40.6	90	25	38.8	14.1	91	23	56.1	11.4	18	13	150.8	24.2	2	2	316.5	0.0	213	68	12,593	3,463
Scammon Bay	2	1	0.0	-	25	7	18.0	14.4	54	10	15.9	5.6	4	4	3.5	0.0	0	0	-	-	85	22	1,323	926
Coastal District	14	6	45.6	34.8	115	32	34.3	11.4	145	33	41.2	7.5	22	17	124.0	19.8	2	2	316.5	0.0	298	90	13,915	3,585
Sheldon's Point	2	1	0.0	-	6	4	0.0	0.0	22	17	61.4	8.8	4	4	147.5	0.0	1	0	-	-	35	26	1,942	380
Alakanuk	10	6	47.8	14.0	45	9	0.0	0.0	80	21	57.0	15.8	9	9	106.0	0.0	0	0	-	-	144	45	5,992	2,493
Emmonak	12	4	75.0	61.2	69	15	11.0	5.9	85	33	42.5	8.9	15	12	69.4	9.4	2	1	230.0	-	183	65	6,777	2,238
Kotlik	1	0	-	-	28	6	81.3	45.4	54	11	33.4	16.1	10	7	132.3	25.7	2	2	327.5	0.0	95	26	6,062	3,062
District 1	25	11	55.1	29.9	148	34	20.5	9.0	241	82	47.0	7.1	38	32	102.8	7.7	5	3	223.0	0.0	457	162	20,773	4,554
Mountain Village	5	3	3.3	2.1	45	8	44.3	28.9	95	24	52.2	14.1	12	10	125.7	7.5	0	0	-	-	157	45	8,484	3,665
Pitkas Point	1	0	-	-	6	5	16.0	6.5	18	15	41.8	7.9	2	2	6.0	0.0	0	0	-	-	27	22	862	292
St. Mary's	8	2	103.0	84.0	42	10	44.4	22.1	61	12	65.2	18.1	17	15	174.3	11.0	2	2	197.0	0.0	130	41	10,026	3,145
Pilot Station	2	1	0.0	-	37	10	46.5	25.1	59	28	29.7	6.4	5	5	31.4	0.0	0	0	-	-	103	44	3,633	1,970
Marshall	2	1	0.0	-	17	4	0.0	0.0	54	13	22.2	6.9	7	6	57.2	5.3	0	0	-	-	80	24	1,601	743
District 2	18	7	46.7	37.3	147	37	38.6	12.6	287	92	44.1	6.3	43	38	117.2	4.9	2	2	197.0	0.0	497	176	24,605	5,277
Russian Mission	3	1	0.0	-	27	5	0.0	0.0	35	8	3.7	1.5	3	3	10.7	0.0	1	1	0.0	0.0	69	18	163	107
Holy Cross	0	0	-	-	15	5	0.0	0.0	42	19	10.4	2.7	4	3	5.0	1.3	0	0	-	-	61	27	460	224
Shageluk	5	3	5.0	3.2	9	5	0.0	0.0	14	11	2.2	0.7	3	3	50.0	0.0	6	5	79.6	32.5	37	27	684	384
District 3	8	4	3.1	2.0	51	15	0.0	0.0	91	38	6.6	1.4	10	9	20.2	0.5	7	6	68.2	28.0	167	72	1,308	457
Anvik	1	0	-	-	18	17	0.0	0.0	15	12	1.3	0.6	3	3	8.0	0.0	1	1	50.0	0.0	38	33	94	18
Grayling	0	0	-	-	10	3	0.0	0.0	24	5	0.0	0.0	13	11	7.1	1.5	1	1	0.0	0.0	48	20	92	38
Kaltag	2	0	-	-	7	5	0.0	0.0	46	12	0.1	0.1	5	5	0.4	0.0	0	0	-	-	60	22	10	9
Nulato	1	0	-	-	46	11	0.5	0.4	43	12	4.1	2.4	8	8	1.0	0.0	1	1	0.0	0.0	99	32	208	208
Koyukuk	1	1	0.0	0.0	12	8	6.4	3.2	19	13	1.5	0.8	1	0	-	-	2	2	6.0	0.0	35	24	118	82
Galena	7	2	0.0	0.0	118	23	0.1	0.1	65	18	0.0	0.0	9	8	1.3	0.4	2	2	14.0	0.0	201	53	53	20
Ruby	0	0	-	-	54	10	13.2	8.6	13	3	0.0	0.0	5	5	4.0	0.0	3	2	97.5	1.4	75	20	1,025	908
Huslia	2	1	250.0	-	59	11	0.0	0.0	26	5	0.0	0.0	5	3	66.7	42.2	0	0	-	-	92	20	833	413
Hughes	1	0	-	-	11	10	5.1	1.5	10	8	9.5	2.8	2	2	200.0	0.0	0	0	-	-	24	20	551	64
Allakaket	2	1	15.0	-	26	7	0.0	0.0	16	5	36.6	28.7	5	5	139.6	0.0	1	1	290.0	0.0	50	19	1,604	901
Alatna	0	0	-	-	3	1	0.0	-	4	2	0.0	0.0	0	0	-	-	0	0	-	-	7	3	0	0
Bettles	5	2	0.0	0.0	21	12	0.0	0.0	2	2	0.0	0.0	2	2	0.0	0.0	0	0	-	-	30	18	0	0
District 4	22	7	24.1	0.0	385	118	2.3	1.2	283	97	3.3	1.6	58	52	27.4	3.7	11	10	61.1	0.0	759	284	4,588	1,365
Tanana	9	0	-	-	65	12	0.0	0.0	18	7	0.0	0.0	9	7	4.3	1.4	12	11	114.0	14.6	113	37	1,407	344
Rampart	1	0	-	-	11	5	0.0	0.0	1	0	-	-	6	2	0.0	0.0	0	0	-	-	19	7	0	0
Stevens Village	4	0	-	-	15	6	0.0	0.0	11	5	0.0	0.0	5	4	0.0	0.0	1	0	-	-	36	15	0	0
Birch Creek	0	0	-	-	6	5	0.0	0.0	7	4	0.0	0.0	0	0	-	-	0	0	-	-	13	9	0	0
Beaver	1	0	-	-	15	7	0.0	0.0	8	4	1.0	0.7	5	1	64.0	-	0	0	-	-	29	12	328	11
Fort Yukon	0	0	-	-	109	24	0.0	0.0	48	11	0.0	0.0	13	9	22.2	12.3	1	1	0.0	0.0	171	45	289	314
Venetie	4	2	0.0	0.0	35	6	0.0	0.0	6	4	0.0	0.0	2	2	53.0	0.0	1	1	0.0	0.0	48	15	106	0
Chalkyitsik	0	0	-	-	27	20	0.0	0.0	6	5	0.0	0.0	3	2	0.0	0.0	0	0	-	-	36	27	0	0
District 5	19	2	0.0	0.0	283	85	0.0	0.0	105	40	0.1	0.0	43	27	17.5	3.7	15	13	91.2	12.0	465	167	2,129	466
Survey Totals	106	37	32.2	10.5	1,129	321	12.0	2.4	1,152	382	27.3	2.4	214	175	66.4	2.9	42	36	111.0	6.2	2,643	951	67,318	7,983

^a The total number of households (N), the number of households contacted (n), standard error (SE), and includes 95 percent confidence interval, CI (95%). Dashes indicate indefinable values.

Appendix A.3. Estimated fall chum salmon subsistence harvest by residents of surveyed villages, by harvest stratum, with village and district totals, Yukon Area, 2001. ^a

Community	Unknown				Does Not Harvest Salmon				Light Harvester				Medium Harvester				Heavy Harvester				Total	Combined		
	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Total	Est		CI(95%)		
Hooper Bay	12	5	0.0	0.0	90	25	4.0	3.4	91	23	0.0	0.0	18	13	0.2	0.1	2	2	0.0	0.0	213	68	364	600
Scammon Bay	2	1	0.0	-	25	7	0.0	0.0	54	10	2.1	1.2	4	4	20.5	0.0	0	0	-	-	85	22	195	134
Coastal District	14	6	0.0	0.0	115	32	3.1	2.7	145	33	0.8	0.4	22	17	3.9	0.1	2	2	0.0	0.0	298	90	560	614
Sheldon's Point	2	1	0.0	-	6	4	0.0	0.0	22	17	3.4	0.9	4	4	25.0	0.0	1	0	-	-	35	26	176	42
Alakanuk	10	6	0.8	0.5	45	9	0.0	0.0	80	21	8.0	4.7	9	9	11.7	0.0	0	0	-	-	144	45	761	746
Emmonak	12	4	0.0	0.0	69	15	0.0	0.0	85	33	2.8	1.9	15	12	2.1	0.6	2	1	0.0	-	183	65	273	318
Kotlik	1	0	-	-	28	6	0.2	0.2	54	11	2.4	1.7	10	7	24.6	9.5	2	2	75.0	0.0	95	26	533	266
District 1	25	11	0.3	0.2	148	34	0.0	0.0	241	82	4.6	1.7	38	32	12.7	2.5	5	3	30.0	0.0	457	162	1,744	854
Mountain Village	5	3	0.0	0.0	45	8	0.0	0.0	95	24	1.3	0.6	12	10	0.0	0.0	0	0	-	-	157	45	131	117
Pitkas Point	1	0	-	-	6	5	4.0	1.6	18	15	0.5	0.1	2	2	0.0	0.0	0	0	-	-	27	22	34	20
St. Mary's	8	2	0.0	0.0	42	10	2.9	2.5	61	12	0.8	0.7	17	15	3.2	0.8	2	2	0.0	0.0	130	41	227	228
Pilot Station	2	1	0.0	-	37	10	0.0	0.0	59	28	0.5	0.2	5	5	0.0	0.0	0	0	-	-	103	44	30	30
Marshall	2	1	68.0	-	17	4	0.0	0.0	54	13	11.1	5.8	7	6	37.8	7.5	0	0	-	-	80	24	1,003	624
District 2	18	7	7.6	0.0	147	37	1.0	0.7	287	92	2.9	1.1	43	38	7.4	1.3	2	2	0.0	0.0	497	176	1,424	676
Russian Mission	3	1	0.0	-	27	5	0.0	0.0	35	8	0.7	0.6	3	3	16.7	0.0	1	1	0.0	0.0	69	18	76	45
Holy Cross	0	0	-	-	15	5	0.0	0.0	42	19	14.0	8.0	4	3	9.0	4.5	0	0	-	-	61	27	624	665
Shageluk	5	3	0.0	0.0	9	5	0.0	0.0	14	11	0.0	0.0	3	3	0.0	0.0	6	5	0.0	0.0	37	27	0	0
District 3	8	4	0.0	0.0	51	15	0.0	0.0	91	38	6.8	3.7	10	9	8.6	1.8	7	6	0.0	0.0	167	72	700	666
Anvik	1	0	-	-	18	17	0.0	0.0	15	12	1.6	0.5	3	3	0.7	0.0	1	1	2.0	0.0	38	33	29	15
Grayling	0	0	-	-	10	3	0.0	0.0	24	5	5.8	5.1	13	11	13.5	3.8	1	1	0.0	0.0	48	20	314	262
Katag	2	0	-	-	7	5	2.4	1.3	46	12	2.0	1.7	5	4	0.0	0.0	0	0	-	-	60	21	113	162
Nulato	1	0	-	-	46	11	0.9	0.8	43	12	2.5	2.1	8	8	0.3	0.0	1	1	0.0	0.0	99	32	151	193
Koyukuk	1	1	0.0	0.0	12	8	0.0	0.0	19	13	3.0	1.7	1	0	-	-	2	2	229.5	0.0	35	24	517	64
Galena	7	2	0.0	0.0	118	23	0.5	0.5	65	18	0.0	0.0	9	8	0.0	0.0	2	2	179.0	0.0	201	53	420	108
Ruby	0	0	-	-	54	10	5.2	4.7	13	3	0.0	0.0	5	5	0.0	0.0	3	2	100.0	57.7	75	20	581	602
Huslia	2	1	250.0	-	59	11	0.3	0.3	26	5	0.0	0.0	5	3	33.3	21.1	0	0	-	-	92	20	683	209
Hughes	1	0	-	-	11	10	0.0	0.0	10	8	0.0	0.0	2	2	0.0	0.0	0	0	-	-	24	20	0	0
Allakaket	2	1	0.0	-	26	7	0.0	0.0	16	5	0.0	0.0	5	5	0.0	0.0	1	1	50.0	0.0	50	19	50	0
Alatna	0	0	-	-	3	1	0.0	-	4	2	0.0	0.0	0	0	-	-	0	0	-	-	7	3	0	0
Bettles	5	2	0.0	0.0	21	12	0.0	0.0	2	2	0.0	0.0	2	2	0.0	0.0	0	0	-	-	30	18	0	0
District 4	22	7	22.7	0.0	365	118	1.1	0.7	283	97	1.5	0.6	58	51	6.0	2.0	11	10	106.3	16.0	759	283	2,858	744
Tanana	9	0	-	-	65	12	0.0	0.0	18	7	0.0	0.0	9	7	10.0	4.7	12	11	807.5	115.9	113	37	9,779	2,729
Rampart	1	0	-	-	11	5	16.6	10.8	1	0	-	-	6	2	0.0	0.0	0	0	-	-	19	7	183	234
Stevens Village	4	0	-	-	15	6	0.0	0.0	11	5	0.0	0.0	5	4	0.0	0.0	1	0	-	-	36	15	0	0
Birch Creek	0	0	-	-	6	5	0.0	0.0	7	4	0.0	0.0	0	0	-	-	0	0	-	-	13	9	0	0
Beaver	1	0	-	-	15	7	1.4	1.0	8	4	0.0	0.0	5	1	0.0	-	0	0	-	-	29	12	21	31
Fort Yukon	0	0	-	-	109	24	5.2	3.3	48	11	11.8	6.7	13	9	71.1	21.7	1	1	150.0	0.0	171	45	2,209	1,093
Venette	4	2	0.0	0.0	35	6	0.0	0.0	6	4	230.0	128.9	2	2	53.0	0.0	1	1	1800.0	0.0	48	15	3,286	1,517
Chalkyitsik	0	0	-	-	27	20	0.0	0.0	6	5	12.2	4.9	3	2	0.0	0.0	0	0	-	-	36	27	73	59
District 5	19	2	0.0	0.0	283	85	2.7	1.3	105	40	19.2	8.0	43	27	26.1	6.6	15	13	776.0	93.0	465	167	15,552	3,317
Survey Totals	106	37	6.1	0.1	1,129	321	1.5	0.5	1,152	382	4.4	0.9	214	174	11.4	1.5	42	36	308.5	33.3	2,643	950	22,837	3,683

^a The total number of households (N), the number of households contacted (n), standard error (SE), and includes 95 percent confidence interval, CI (95%). Dashes indicate indefinable values.

Appendix A.4. Estimated coho salmon subsistence harvest by residents of surveyed villages, by harvest stratum, with village and district totals, Yukon Area, 2001. ^a

Community	Unknown				Does Not Harvest Salmon				Light Harvester				Medium Harvester				Heavy Harvester				Combined			
																					Total		Est	CI(95%)
	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Total	(+/-)
Hooper Bay	12	5	0.0	0.0	90	25	4.9	4.1	91	23	0.0	0.0	18	13	0.0	0.0	2	2	0.0	0.0	213	68	439	719
Scammon Bay	2	1	0.0	-	25	7	0.0	0.0	54	10	1.1	0.9	4	4	1.0	0.0	0	0	-	-	85	22	63	95
Coastal District	14	6	0.0	0.0	115	32	3.8	3.2	145	33	0.4	0.3	22	17	0.2	0.0	2	2	0.0	0.0	298	90	503	725
Sheldon's Point	2	1	0.0	-	6	4	0.0	0.0	22	17	1.4	0.5	4	4	0.0	0.0	1	0	-	-	35	26	32	26
Alakanuk	10	6	0.7	0.4	45	9	0.0	0.0	80	21	2.5	1.5	9	9	3.3	0.0	0	0	-	-	144	45	242	240
Emmonak	12	4	0.0	0.0	69	15	1.7	1.5	85	33	0.0	0.0	15	12	2.0	0.8	2	1	0.0	-	183	65	145	201
Kotlik	1	0	-	-	28	6	0.0	0.0	54	11	0.6	0.4	10	7	17.9	8.1	2	2	75.0	0.0	95	26	363	165
District 1	25	11	0.3	0.2	148	34	0.8	0.7	241	82	1.1	0.5	38	32	6.3	2.2	5	3	30.0	0.0	457	162	783	354
Mountain Village	5	3	2.7	0.9	45	8	0.4	0.3	95	24	0.7	0.4	12	10	1.3	0.4	0	0	-	-	157	45	121	87
Pitkas Point	1	0	-	-	6	5	6.0	2.5	18	15	4.2	1.5	2	2	0.0	0.0	0	0	-	-	27	22	112	63
St. Mary's	8	2	2.5	2.2	42	10	12.8	8.6	61	12	0.0	0.0	17	15	3.1	0.7	2	2	0.0	0.0	130	41	610	712
Pilot Station	2	1	0.0	-	37	10	0.0	0.0	59	28	0.7	0.5	5	5	0.0	0.0	0	0	-	-	103	44	42	60
Marshall	2	1	0.0	-	17	4	0.0	0.0	54	13	1.3	0.8	7	6	0.3	0.1	0	0	-	-	80	24	73	92
District 2	18	7	1.9	1.0	147	37	4.0	2.5	287	92	0.9	0.2	43	38	1.6	0.3	2	2	0.0	0.0	497	176	957	729
Russian Mission	3	1	0.0	-	27	5	0.0	0.0	35	8	0.0	0.0	3	3	0.0	0.0	1	1	0.0	0.0	69	18	0	0
Holy Cross	0	0	-	-	15	5	0.0	0.0	42	19	0.0	0.0	4	3	0.0	0.0	0	0	-	-	61	27	0	0
Shageluk	5	3	0.0	0.0	9	5	0.0	0.0	14	11	0.0	0.0	3	3	0.0	0.0	6	5	0.0	0.0	37	27	0	0
District 3	8	4	0.0	0.0	51	15	0.0	0.0	91	38	0.0	0.0	10	9	0.0	0.0	7	6	0.0	0.0	167	72	0	0
Anvik	1	0	-	-	18	17	0.0	0.0	15	12	0.8	0.3	3	3	0.0	0.0	1	1	0.0	0.0	38	33	13	11
Grayling	0	0	-	-	10	3	0.0	0.0	24	5	0.0	0.0	13	11	10.7	3.2	1	1	5.0	0.0	48	20	144	81
Kaltag	2	0	-	-	7	5	2.4	1.3	46	12	5.5	2.4	5	4	1.8	0.8	0	0	-	-	60	21	282	219
Nulato	1	0	-	-	46	11	0.0	0.0	43	12	4.8	3.1	8	8	6.3	0.0	1	1	0.0	0.0	99	32	258	264
Koyukuk	1	1	0.0	0.0	12	8	0.0	0.0	19	13	1.3	0.6	1	0	-	-	2	2	27.5	0.0	35	24	80	24
Galena	7	2	0.0	0.0	118	23	0.5	0.5	65	18	0.0	0.0	9	8	7.5	2.5	2	2	6.5	0.0	201	53	142	117
Ruby	0	0	-	-	54	10	7.0	6.3	13	3	3.3	2.9	5	5	0.0	0.0	3	2	150.0	86.6	75	20	871	844
Huslia	2	1	0.0	-	59	11	0.0	0.0	26	5	0.0	0.0	5	3	16.7	10.5	0	0	-	-	92	20	83	103
Hughes	1	0	-	-	11	10	1.0	0.3	10	8	5.6	2.3	2	2	25.0	0.0	0	0	-	-	24	20	117	47
Allakaket	2	1	0.0	-	26	7	0.0	0.0	16	5	0.0	0.0	5	5	5.0	0.0	1	1	0.0	0.0	50	19	25	0
Alatna	0	0	-	-	3	1	0.0	-	4	2	0.0	0.0	0	0	-	-	0	0	-	-	7	3	0	0
Bettles	5	2	0.0	0.0	21	12	0.0	0.0	2	2	0.0	0.0	2	2	0.0	0.0	0	0	-	-	30	18	0	0
District 4	22	7	0.0	0.0	385	118	1.2	0.9	283	97	2.1	0.6	58	51	7.3	1.2	11	10	47.5	24.0	759	283	2,016	929
Tanana	9	0	-	-	65	12	0.0	0.0	18	7	0.0	0.0	9	7	0.0	0.0	12	11	556.3	68.3	113	37	6,675	1,608
Rampart	1	0	-	-	11	5	0.0	0.0	1	0	-	-	6	2	0.0	0.0	0	0	-	-	19	7	0	0
Stevens Village	4	0	-	-	15	6	0.0	0.0	11	5	0.0	0.0	5	4	0.0	0.0	1	0	-	-	36	15	0	0
Birch Creek	0	0	-	-	6	5	0.0	0.0	7	4	0.0	0.0	0	0	-	-	0	0	-	-	13	9	0	0
Beaver	1	0	-	-	15	7	0.0	0.0	8	4	0.0	0.0	5	1	0.0	-	0	0	-	-	29	12	0	0
Fort Yukon	0	0	-	-	109	24	3.5	2.2	48	11	8.1	7.1	13	9	3.3	1.3	1	1	150.0	0.0	171	45	972	820
Venetie	4	2	0.0	0.0	35	6	0.0	0.0	6	4	0.0	0.0	2	2	5.0	0.0	1	1	0.0	0.0	48	15	10	0
Chaikytisik	0	0	-	-	27	20	0.0	0.0	6	5	0.6	0.2	3	2	0.0	0.0	0	0	-	-	36	27	4	3
District 5	19	2	0.0	0.0	283	85	1.4	0.8	105	40	3.8	3.2	43	27	1.2	0.4	15	13	455.0	55.0	465	167	7,661	1,805
Survey Totals	106	37	0.4	0.2	1,129	321	1.8	0.6	1,152	382	1.4	0.3	214	174	3.7	0.5	42	36	178.5	20.4	2,643	950	11,920	2,303

^a The total number of households (N), the number of households contacted (n), standard error (SE), and includes 95 percent confidence interval, CI (95%). Dashes indicate indefinable values.

Appendix A.5. Estimated chinook salmon subsistence use by residents of surveyed villages, by harvest stratum, with village and district totals, Yukon Area, 2001. *

Community	Unknown				Does Not Harvest Salmon				Light Harvester				Medium Harvester				Heavy Harvester				Combined			
	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	Total	Est	CI(95%)	
Hooper Bay	12	4	15.5	5.7	90	24	5.1	1.5	91	22	9.6	1.7	18	13	17.6	3.0	2	2	10.5	0.0	213	65	1,862	441
Scammon Bay	2	1	0.0	-	25	7	14.0	5.8	54	10	11.7	3.3	4	4	21.0	0.0	0	0	-	-	85	22	1,066	454
Coastal District	14	5	13.3	4.9	115	31	7.1	1.7	145	32	10.4	1.6	22	17	18.2	2.4	2	2	10.5	0.0	298	87	2,928	632
Sheldon's Point	2	1	2.0	-	6	4	2.5	0.7	22	17	22.0	3.4	4	4	34.3	0.0	1	0	-	-	35	26	640	149
Alakanuk	10	6	11.3	3.6	45	9	2.9	1.3	80	20	9.2	2.4	9	9	25.8	0.0	0	0	-	-	144	44	1,215	406
Emmonak	12	4	10.5	5.4	69	15	11.9	4.4	85	32	18.4	2.4	15	12	18.6	2.3	2	1	35.0	-	183	64	2,865	733
Kotlik	1	0	-	-	28	6	17.7	8.6	54	11	20.8	7.6	10	5	35.6	10.1	2	2	190.0	0.0	95	24	2,355	953
District 1	25	11	9.7	3.0	148	34	9.9	2.7	241	80	16.2	2.0	38	30	26.4	2.8	5	3	90.0	0.0	457	158	7,076	1,278
Mountain Village	5	3	10.0	6.3	45	8	9.8	3.8	95	23	12.0	1.8	12	10	34.1	5.6	0	0	-	-	157	44	2,038	497
Pitkas Point	1	0	-	-	6	5	6.6	1.9	18	14	31.2	3.1	2	2	111.5	0.0	0	0	-	-	27	21	826	113
St. Mary's	8	2	50.5	30.7	42	8	31.6	12.8	61	12	23.5	6.9	17	15	42.7	3.1	2	2	102.0	0.0	130	39	4,101	1,429
Pilot Station	2	1	20.0	-	37	10	21.0	7.4	59	27	17.4	3.0	5	5	35.8	0.0	0	0	-	-	103	43	2,027	642
Marshall	2	1	68.0	-	17	4	47.0	6.3	54	12	37.6	6.4	7	5	107.6	10.5	0	0	-	-	80	22	3,722	727
District 2	18	7	35.0	13.8	147	35	23.0	4.3	287	88	21.6	2.1	43	37	53.3	2.6	2	2	102.0	0.0	497	169	12,715	1,800
Russian Mission	3	1	1.0	-	27	5	13.0	8.5	35	8	58.5	24.5	3	3	20.7	0.0	1	1	3.0	0.0	69	18	2,467	1,743
Holy Cross	0	0	-	-	15	5	1.2	0.8	42	18	50.3	7.6	4	3	116.7	19.6	0	0	-	-	61	26	2,801	645
Shageluk	5	3	4.0	2.5	9	5	1.4	0.9	14	11	7.5	1.7	3	3	11.0	0.0	6	5	10.8	3.5	37	27	236	69
District 3	8	4	2.9	1.6	51	15	7.5	4.5	91	37	46.9	10.0	10	9	56.2	7.8	7	6	9.7	3.0	167	71	5,304	1,860
Anvik	1	0	-	-	18	17	3.6	0.4	15	12	18.9	3.2	3	3	70.7	0.0	1	0	-	-	38	32	560	97
Grayling	0	0	-	-	10	1	0.0	-	24	4	11.7	5.9	13	11	54.4	8.2	1	1	11.0	0.0	48	17	1,000	351
Kallag	2	0	-	-	7	5	0.6	0.3	46	10	27.7	5.9	5	5	52.8	0.0	0	0	-	-	60	20	1,542	540
Nulato	1	0	-	-	46	11	16.2	7.9	43	12	29.6	5.9	8	8	28.5	0.0	1	1	70.0	0.0	99	32	2,318	874
Koyukuk	1	1	0.0	0.0	12	8	2.1	0.5	19	13	17.3	3.9	1	0	-	-	2	2	68.0	0.0	35	24	492	148
Gallena	7	2	1.5	1.3	118	23	5.1	2.4	65	18	16.6	5.0	9	8	39.3	4.6	2	2	31.5	0.0	201	53	2,110	861
Ruby	0	0	-	-	54	10	20.3	7.4	13	3	2.3	2.0	5	5	32.2	0.0	3	2	242.5	90.9	75	20	2,015	952
Huslia	2	0	-	-	59	10	1.4	0.5	26	4	8.5	4.2	5	3	23.3	11.7	0	0	-	-	92	17	420	253
Hughes	1	0	-	-	11	10	2.0	0.3	10	8	9.7	1.6	2	2	19.0	0.0	0	0	-	-	24	20	158	33
Allakaket	2	1	0.0	-	26	7	0.0	0.0	16	5	2.8	0.8	5	5	7.6	0.0	1	1	6.0	0.0	50	19	89	27
Alatna	0	0	-	-	3	1	0.0	-	4	2	0.0	0.0	0	0	-	-	0	0	-	-	7	3	0	0
Bettles	5	2	0.0	0.0	21	12	0.0	0.0	2	2	1.0	0.0	2	2	0.0	0.0	0	0	-	-	30	18	2	0
District 4	22	6	0.5	0.4	385	115	6.9	1.6	283	93	17.4	1.9	58	52	36.5	2.2	11	9	92.1	25.0	759	275	10,706	1,709
Tanana	9	0	-	-	65	12	10.6	4.8	18	7	5.5	2.6	9	7	38.6	7.5	12	11	173.9	15.0	113	37	3,222	722
Rampart	1	0	-	-	11	5	36.0	11.6	1	0	-	-	6	1	6.0	-	0	0	-	-	19	6	432	250
Stevens Village	4	0	-	-	15	6	6.3	1.4	11	4	54.0	17.5	5	4	58.0	16.4	1	0	-	-	36	14	979	413
Birch Creek	0	0	-	-	6	5	1.0	0.3	7	4	0.2	0.1	0	0	-	-	0	0	-	-	13	9	8	4
Beaver	1	0	-	-	15	7	13.3	7.6	8	3	23.0	12.7	5	0	-	-	0	0	-	-	29	10	383	299
Fort Yukon	0	0	-	-	109	23	7.9	3.7	48	10	15.7	6.5	13	9	55.3	7.2	1	1	0.0	0.0	171	43	2,335	1,013
Venette	4	2	0.0	0.0	35	6	0.7	0.5	6	4	0.2	0.1	2	2	9.0	0.0	1	1	0.0	0.0	48	15	43	31
Chalkyitsik	0	0	-	-	27	20	0.7	0.1	6	5	0.4	0.1	3	2	0.0	0.0	0	0	-	-	36	27	20	7
District 5	19	2	0.0	0.0	283	84	8.1	1.9	105	37	15.6	3.6	43	25	32.8	3.3	15	13	139.1	12.0	465	161	7,423	1,368
Survey Totals	106	35	10.3	2.5	1,129	314	9.7	1.0	1,152	367	19.5	1.2	214	170	36.4	1.2	42	35	91.5	7.8	2,643	921	46,150	3,678

* The total number of households (N), the number of households contacted (n), standard error (SE), and includes 95 percent confidence interval, CI (95%). Dashes indicate indefinable values.

Appendix A.6. Estimated summer chum salmon subsistence use by residents of surveyed villages, by harvest stratum, with village and district totals, Yukon Area, 2001.*

Community	Unknown				Does Not Harvest Salmon				Light Harvester				Medium Harvester				Heavy Harvester				Combined					
	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	Total	N	n	Total	Est	CI(95%)
Hooper Bay Scammon Bay Coastal District	12	4	66.5	54.3	90	24	46.6	14.1	91	22	65.5	15.4	18	13	143.9	20.7	2	2	316.5	0.0	213	65	14,183	3,986		
	2	1	0.0	-	25	7	34.7	18.7	54	10	24.4	6.5	4	4	3.5	0.0	0	0	-	-	85	22	2,199	1,145		
	14	5	57.0	46.5	115	31	44.0	11.8	145	32	50.2	9.9	22	17	118.4	16.9	2	2	316.5	0.0	298	87	16,382	4,148		
Sheldon's Point Alakanuk Emmonak Kotlik District 1	2	1	3.0	-	6	4	3.3	1.3	22	17	70.1	10.8	4	4	105.0	0.0	1	0	-	-	35	26	1,988	488		
	10	6	47.8	14.0	45	9	9.3	3.5	80	20	64.7	16.0	9	9	115.8	0.0	0	0	-	-	144	44	7,120	2,546		
	12	4	79.0	60.7	69	15	31.1	8.3	85	33	65.2	10.5	15	12	86.7	9.5	2	1	230.0	-	183	65	10,400	2,543		
	1	0	-	-	28	6	60.8	31.4	54	11	73.0	19.8	10	5	94.6	27.4	2	2	327.5	0.0	95	24	7,251	2,767		
District 1	25	11	57.3	29.7	148	34	29.0	7.2	241	81	67.3	7.9	38	30	97.6	8.1	5	3	223.0	0.0	457	159	26,759	4,563		
Mountain Village Pikias Point St. Mary's Pilot Station Marshall District 2	5	3	3.3	2.1	45	8	66.6	28.1	95	23	48.0	10.1	12	10	142.8	14.1	0	0	-	-	157	44	9,297	3,134		
	1	0	-	-	6	5	15.0	3.9	18	14	44.2	9.1	2	2	131.0	0.0	0	0	-	-	27	21	1,148	326		
	8	2	103.0	84.0	42	8	57.4	27.1	61	12	49.5	13.6	17	15	111.7	8.1	2	2	197.0	0.0	130	39	8,551	3,073		
	2	1	0.0	-	37	10	53.0	24.2	59	27	22.9	3.0	5	5	98.4	0.0	0	0	-	-	103	43	3,808	1,790		
District 2	2	1	0.0	-	17	4	16.5	5.9	54	12	17.9	3.9	7	5	43.2	9.9	0	0	-	-	80	22	1,550	484		
	18	7	46.7	37.3	147	35	52.6	13.1	287	88	37.3	4.5	43	37	108.6	5.3	2	2	197.0	0.0	497	169	24,353	4,776		
Russian Mission Holy Cross Shageluk District 3	3	1	0.0	-	27	5	1.2	1.1	35	8	3.0	1.5	3	3	2.7	0.0	1	1	0.0	0.0	69	18	145	123		
	0	0	-	-	15	5	0.0	0.0	42	18	8.6	2.5	4	3	5.0	1.3	0	0	-	-	61	26	384	211		
	5	3	5.0	3.2	9	5	0.0	0.0	14	11	2.2	0.7	3	3	26.7	0.0	6	5	0.6	0.2	37	27	140	37		
	8	4	3.1	2.0	51	15	0.6	0.6	91	37	5.5	1.3	10	9	10.8	0.5	7	6	0.5	0.0	167	71	670	247		
Anvik Grayling Katlag Nulato	1	0	-	-	18	17	0.1	0.0	15	12	1.3	0.6	3	3	4.7	0.0	1	0	-	-	38	32	35	18		
	0	0	-	-	10	1	0.0	-	24	4	0.0	0.0	13	11	6.2	1.5	1	1	0.0	0.0	48	17	80	38		
	2	0	-	-	7	5	0.0	0.0	46	10	0.2	0.1	5	5	0.4	0.0	0	0	-	-	60	20	11	11		
	1	0	-	-	46	11	0.5	0.4	43	12	4.1	2.4	8	8	1.0	0.0	1	1	0.0	0.0	99	32	208	208		
Koyukuk Galeana Ruby	1	1	0.0	0.0	12	8	1.3	0.5	19	13	0.0	0.0	1	0	-	-	2	2	6.0	0.0	35	24	27	11		
	7	2	0.0	0.0	118	23	0.2	0.2	65	18	0.0	0.0	9	8	1.3	0.4	2	2	1.5	0.0	201	53	38	37		
	0	0	-	-	54	10	17.5	11.9	13	3	66.6	58.4	5	5	4.0	0.0	3	2	77.5	12.9	75	20	2,064	1,952		
	2	1	0.0	-	59	10	2.0	1.8	26	4	0.0	0.0	5	3	0.0	0.0	0	0	-	-	92	18	118	211		
Huslia Hughes Alakaket Alatna	1	0	-	-	11	10	5.3	1.5	10	8	6.6	2.7	2	2	60.0	0.0	0	0	-	-	24	20	245	63		
	2	1	15.0	-	26	7	1.1	1.0	16	5	3.6	1.8	5	5	0.0	0.0	1	1	290.0	0.0	50	19	407	76		
	0	0	-	-	3	1	0.0	-	4	2	0.0	0.0	0	0	-	-	0	0	-	-	7	3	0	0		
	5	2	0.0	0.0	21	12	0.0	0.0	2	2	0.0	0.0	2	2	0.0	0.0	0	0	-	-	30	18	0	0		
District 4	22	7	1.4	0.0	385	115	3.1	1.7	283	93	4.2	2.7	58	52	4.4	0.3	11	9	48.9	4.0	759	276	3,234	1,977		
Tanana Rampart Stevens Village Birch Creek	9	0	-	-	65	12	0.0	0.0	18	7	0.0	0.0	9	7	4.3	1.4	12	10	31.0	12.2	113	36	411	288		
	1	0	-	-	11	5	0.0	0.0	1	0	-	-	6	1	0.0	-	0	0	-	-	19	6	0	0		
	4	0	-	-	15	6	0.0	0.0	11	4	0.0	0.0	5	4	0.0	0.0	1	0	-	-	36	14	0	0		
	0	0	-	-	6	5	0.0	0.0	7	4	0.0	0.0	0	0	-	-	0	0	-	-	13	9	0	0		
Beaver Fort Yukon Venetie Chalkyitsik District 5	1	0	-	-	15	7	1.0	0.7	8	3	1.3	1.0	5	0	-	-	0	0	-	-	29	10	26	27		
	0	0	-	-	109	23	0.0	0.0	48	10	0.0	0.0	13	9	0.0	0.0	1	1	0.0	0.0	171	43	0	0		
	4	2	0.0	0.0	35	6	0.0	0.0	6	4	0.0	0.0	2	2	53.0	0.0	1	1	0.0	0.0	48	15	106	0		
	0	0	-	-	27	20	0.0	0.0	6	5	0.0	0.0	3	2	0.0	0.0	0	0	-	-	36	27	0	0		
District 5	19	2	0.0	0.0	283	84	0.1	0.0	105	37	0.1	0.0	43	25	3.4	0.3	15	12	24.8	10.0	465	160	542	289		
Survey Totals	106	36	29.5	11.3	1,129	314	16.2	2.4	1,152	368	31.2	2.4	214	170	53.7	2.5	42	34	72.7	3.6	2,643	922	71,941	8,055		

* Households contacted indicates the number of households with complete numbers of dogs information, includes 95 percent confidence interval, CI (95%) (+/-).

Appendix A.7. Estimated fall chum salmon subsistence use by residents of surveyed villages, by harvest stratum, with village and district totals, Yukon Area, 2001. ^a

Community	Unknown				Does Not Harvest Salmon				Light Harvester				Medium Harvester				Heavy Harvester				Combined			
	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	Total	n	Est	CI(95%)
Hooper Bay	12	4	0.0	0.0	90	24	3.3	2.9	91	22	0.0	0.0	18	13	0.2	0.1	2	2	0.0	0.0	213	65	304	504
Scammon Bay	2	1	0.0	-	25	7	0.0	0.0	54	10	2.1	1.2	4	4	20.5	0.0	0	0	-	-	85	22	195	134
Coastal District	14	5	0.0	0.0	115	31	2.6	2.2	145	32	0.8	0.4	22	17	3.9	0.1	2	2	0.0	0.0	298	87	500	521
Sheldon's Point	2	1	0.0	-	6	4	0.0	0.0	22	17	2.5	0.6	4	4	25.0	0.0	1	0	-	-	35	26	156	29
Alakanuk	10	6	0.8	0.5	45	9	0.0	0.0	80	20	3.5	2.8	9	9	12.0	0.0	0	0	-	-	144	44	396	441
Emmonak	12	4	0.0	0.0	69	15	1.3	1.2	85	33	3.1	1.6	15	12	2.9	1.0	2	1	0.0	-	183	65	404	323
Kotlik	1	0	-	-	28	6	0.7	0.6	54	11	2.7	1.8	10	5	27.4	16.5	2	2	75.0	0.0	95	24	590	379
District 1	25	11	0.3	0.2	148	34	0.7	0.6	241	81	3.1	1.1	38	30	13.8	4.4	5	3	30.0	0.0	457	159	1,546	666
Mountain Village	5	3	0.0	0.0	45	8	0.0	0.0	95	23	1.8	0.6	12	10	0.4	0.2	0	0	-	-	157	44	182	124
Pitkas Point	1	0	-	-	6	5	0.0	0.0	18	14	0.4	0.1	2	2	0.0	0.0	0	0	-	-	27	21	8	6
St. Mary's	8	2	2.5	2.2	42	8	3.6	3.3	61	12	0.8	0.7	17	15	3.4	0.8	2	2	0.0	0.0	130	39	281	286
Pilot Station	2	1	0.0	-	37	10	0.6	0.5	59	27	0.5	0.2	5	5	0.0	0.0	0	0	-	-	103	43	53	44
Marshall	2	1	68.0	-	17	4	4.3	3.7	54	12	8.2	5.9	7	5	20.4	7.6	0	0	-	-	80	22	797	647
District 2	18	7	8.7	1.0	147	35	1.7	1.0	287	88	2.5	1.1	43	37	4.8	1.3	2	2	0.0	0.0	497	169	1,320	719
Russian Mission	3	1	0.0	-	27	5	0.0	0.0	35	8	0.8	0.6	3	3	6.7	0.0	1	1	0.0	0.0	69	18	51	45
Holy Cross	0	0	-	-	15	5	0.0	0.0	42	18	14.7	8.6	4	3	9.0	4.5	0	0	-	-	61	26	657	716
Shageluk	5	3	0.0	0.0	9	5	0.0	0.0	14	11	3.1	1.2	3	3	0.0	0.0	6	5	0.6	0.2	37	27	48	35
District 3	8	4	0.0	0.0	51	15	0.0	0.0	91	37	7.6	4.0	10	9	5.6	1.8	7	6	0.5	0.0	167	71	755	718
Anvik	1	0	-	-	18	17	0.3	0.1	15	12	2.2	0.5	3	3	0.7	0.0	1	0	-	-	38	32	41	16
Grayling	0	0	-	-	10	1	0.0	-	24	4	7.2	6.6	13	11	11.7	3.8	1	1	0.0	0.0	48	17	326	326
Kaltag	2	0	-	-	7	5	2.4	1.3	46	10	2.5	2.2	5	4	0.0	0.0	0	0	-	-	60	19	132	200
Nulato	1	0	-	-	46	11	0.9	0.8	43	12	2.5	2.1	8	8	0.3	0.0	1	1	0.0	0.0	99	32	151	193
Koyukuk	1	1	0.0	0.0	12	8	0.0	0.0	19	13	0.0	0.0	1	0	-	-	2	2	28.0	0.0	35	24	56	0
Galena	7	2	0.0	0.0	118	23	0.5	0.5	65	18	0.6	0.4	9	8	0.0	0.0	2	2	79.0	0.0	201	53	263	124
Ruby	0	0	-	-	54	10	2.0	1.8	13	3	0.0	0.0	5	5	15.0	0.0	3	2	100.0	57.7	75	20	483	390
Huslia	2	1	0.0	-	59	10	0.3	0.3	26	4	0.0	0.0	5	3	0.0	0.0	0	0	-	-	92	18	18	32
Hughes	1	0	-	-	11	10	0.0	0.0	10	8	0.0	0.0	2	2	0.0	0.0	0	0	-	-	24	20	0	0
Allakaket	2	1	0.0	-	26	7	0.0	0.0	16	5	0.0	0.0	5	5	3.0	0.0	1	1	50.0	0.0	50	19	65	0
Alatna	0	0	-	-	3	1	0.0	-	4	2	0.0	0.0	0	0	-	-	0	0	-	-	7	3	0	0
Bettles	5	2	0.0	0.0	21	12	0.0	0.0	2	2	0.0	0.0	2	2	0.0	0.0	0	0	-	-	30	18	0	0
District 4	22	7	0.0	0.0	385	115	0.7	0.3	283	93	1.7	0.7	58	51	4.2	0.9	11	9	51.3	16.0	759	275	1,535	593
Tanana	9	0	-	-	65	12	0.4	0.4	18	7	0.4	0.3	9	7	10.0	4.7	12	10	162.5	47.6	113	36	2,075	1,124
Rampart	1	0	-	-	11	5	16.6	10.8	1	0	-	-	6	1	0.0	-	0	0	-	-	19	6	183	234
Stevens Village	4	0	-	-	15	6	0.0	0.0	11	4	0.0	0.0	5	4	0.0	0.0	1	0	-	-	36	14	0	0
Birch Creek	0	0	-	-	6	5	1.2	0.5	7	4	0.0	0.0	0	0	-	-	0	0	-	-	13	9	7	6
Beaver	1	0	-	-	15	7	1.4	1.0	8	3	0.0	0.0	5	0	-	-	0	0	-	-	29	10	21	31
Fort Yukon	0	0	-	-	109	23	2.2	1.9	48	10	9.5	7.0	13	9	28.9	15.3	1	1	150.0	0.0	171	43	1,219	872
Venetie	4	2	0.0	0.0	35	6	3.3	3.0	6	4	230.0	128.9	2	2	53.0	0.0	1	1	960.0	0.0	48	15	2,563	1,531
Chalkyitsik	0	0	-	-	27	20	0.1	0.0	6	5	12.2	4.9	3	2	0.0	0.0	0	0	-	-	36	27	75	59
District 5	19	2	0.0	0.0	283	84	2.1	0.9	105	37	18.3	8.0	43	25	13.3	4.7	15	12	204.0	38.0	465	160	6,142	2,104
Survey Totals	106	36	1.6	0.2	1,129	314	1.3	0.4	1,152	368	4.0	0.9	214	169	7.9	1.3	42	34	89.9	14.2	2,643	921	11,798	2,555

^a Households contacted indicates the number of households with complete numbers of dogs information, includes 95 percent confidence interval, CI (95%) (+/-). Dashes indicate indefinable values.

Appendix A.9. Estimated number of salmon given away by subsistence fishermen to another subsistence household and corresponding confidence intervals (CI) for surveyed villages, Yukon Area, 2001.

Community	Total Households	Households Contacted	Chinook Salmon		Summer Chum Salmon		Fall Chum Salmon		Coho Salmon		Total Salmon
			Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)	Estimated Total
Hooper Bay	213	69	335	238	2,837	2,544	0	0	0	0	3,172
Scammon Bay	85	22	544	362	888	807	0	0	27	48	1,459
Coastal District	298	91	879	433	3,725	2,669	0	0	27	48	4,631
Sheldon's Point	35	27	105	58	279	205	0	0	156	170	539
Alakanuk	144	45	180	150	782	525	3	0	2	0	967
Emmonak	183	65	147	140	860	794	0	0	10	16	1,017
Kotlik	95	26	39	46	578	864	14	24	23	41	654
District 1	457	163	470	218	2,498	1,302	17	24	192	175	3,177
Mountain Village	157	45	613	327	2,343	1,441	0	0	12	10	2,968
Pitkas Point	27	22	406	100	793	330	0	0	0	0	1,199
St. Mary's	130	41	1,226	1,074	254	241	3	2	10	18	1,493
Pilot Station	103	44	250	188	625	308	0	0	0	0	875
Marshall	80	24	912	271	483	307	72	124	17	29	1,484
District 2	497	176	3,407	1,175	4,497	1,560	76	124	39	35	8,019
Russian Mission	69	18	866	884	32	57	4	8	15	15	917
Holy Cross	61	27	44	33	0	0	0	0	0	0	44
Shageluk	37	28	23	6	3	0	48	35	4	5	77
District 3	167	73	932	885	35	57	52	35	18	16	1,038
Anvik	38	33	79	30	1	0	18	11	3	1	102
Grayling	48	21	9	1	0	0	2	1	0	0	11
Kaltag	60	23	82	77	0	0	0	0	33	57	115
Nulato	99	32	401	408	0	0	0	0	244	357	645
Koyukuk	35	24	43	19	6	7	0	0	0	0	49
Galena	201	53	355	216	10	18	43	61	38	46	447
Ruby	75	20	132	124	1,099	1,538	75	0	22	38	1,328
Huslia	92	20	96	62	118	211	0	0	0	0	214
Hughes	24	20	21	6	22	1	0	0	0	0	44
Allakaket	50	19	13	21	62	72	15	0	2	0	92
Alatna	7	3	0	0	0	0	0	0	0	0	0
Bettles	30	18	2	0	0	0	0	0	4	4	6
District 4	759	286	1,234	490	1,318	1,554	153	62	345	366	3,051
Tanana	113	37	368	156	0	0	1,595	731	164	93	2,126
Rampart	19	7	0	0	0	0	0	0	0	0	0
Stevens Village	36	20	113	95	0	0	0	0	0	0	113
Birch Creek	13	9	8	4	0	0	7	6	0	0	15
Beaver	29	12	34	29	15	21	0	0	0	0	49
Fort Yukon	171	45	247	179	0	0	24	42	9	17	281
Venetie	48	15	25	31	0	0	117	208	28	42	170
Chalkyitsik	36	27	20	7	0	0	1	1	0	0	21
District 5	465	172	815	259	15	21	1,744	761	201	103	2,776
Survey Totals	2,643	961	7,738	1,645	12,088	3,697	2,042	775	823	423	22,691

Appendix A.10. Estimated total number of salmon provided to villages for subsistence use by test fish programs, Yukon Area, 2001.

Yukon River Test Fishery Sites	Village where fish were distributed	Chinook	Summer Chum	Fall Chum	Coho
LYTF Drift Gillnet (summer)	Emmonak	400	1,400	-	-
	Kotlik	135	387	-	-
LYTF Set Gillnet (summer)	Emmonak	530	65	-	-
	Kotlik	849	146	-	-
LYTF Drift Gillnet (fall)	Emmonak	-	-	999	197
	Alakanuk	-	-	271	172
	Kotlik	-	-	424	123
Mountain Village Test Drift Gillnet	Mountain Village	-	-	339	302
Pilot Station Test Drift Gillnet	Pilot Station	561	1,696	1,492	180
Kaltag Test Drift Gillnet	Kaltag	-	-	494	251
Marshall Tag Deployment Drift Gillnet	Marshall	27	1	0	0
Russian Mission Tag Deployment Drift Gillnet	Russian Mission	11	2	0	0
Subtotals by village					
	Emmonak	930	1,465	999	197
	Kotlik	984	533	424	123
	Alakanuk	0	0	271	172
	Mountain Village	0	0	339	302
	Pilot Station	561	1,696	1,492	180
	Kaltag	0	0	494	251
	Marshall	27	1	0	0
	Russian Mission	11	2	0	0
Grand Total		2,513	3,697	4,019	1,225

Appendix B.1 Chinook salmon subsistence harvest totals by fishing district and community of residence, Yukon Area, 1990-2001. Harvests are estimated from post season survey, returned permits and test fish projects.

Community	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	1991-1995 Average	1996-2000 Average
Hooper Bay			503	230	157	1,500	1,127	613	13	173	114	2,150	598 c	408
Scammon Bay			948	1,199	668	585	1,238	526	378	938	449	732	724 c	706
Coastal District Subtotal			1,451	1,429	825	2,085	2,365	1,139	391	1,111	563	2,862	1,321	1,114
Sheldon Point	756	445	388	561	605	459	450	970	527	855	684	550	492	697
Alakanuk	871	1,044	623	2,562	1,045	1,191	662	2,058	1,930	1,236	1,109	973	1,293	1,399
Emmonak	1,873	1,311	2,336	4,372	2,384	1,711	702	3,080	2,396	3,337	2,205	2,473	2,423	2,344
Kotlik	3,119	3,125	1,794	2,913	2,505	2,599	1,832	1,442	2,389	1,420	1,893	3,093	2,587	1,795
District 1 Subtotal	6,619	5,925	5,141	10,408	6,540	5,960	3,646	7,550	7,242	6,848	5,891	7,089	6,795	6,235
Mountain Village	1,792	1,171	1,249	3,217	1,511	1,542	1,315	2,081	2,533	2,182	1,715	1,864	1,738	1,961
Pitkas Point	391	652	851	1,001	469	559	762	793	817	632	753	651	706	751
St. Marys	2,085	1,836	1,753	2,042	2,722	2,031	1,786	2,592	2,679	2,150	1,810	3,815	2,077	2,199
Pilot Station	3,786	2,681	1,818	2,661	1,977	1,614	1,811	2,373	1,715	2,715	2,378	2,614	2,150	2,198
Marshall	1,492	1,277	1,403	2,592	2,277	3,291	2,126	1,511	1,711	2,780	3,279	4,498	2,168	2,281
District 2 Subtotal	8,546	7,617	7,074	11,513	8,956	9,037	7,780	9,350	9,455	10,439	9,935	13,442	8,839	9,392
Russian Mission	1,694	1,349	1,282	3,273	1,793	2,450	2,709	1,459	1,314	2,722	1,860	3,428	2,029	2,013
Holy Cross	2,337	1,649	3,491	3,191	4,040	2,808	3,953	3,472	2,648	4,581	1,249	2,711	3,036	3,181
Shageluk	62	189	218	128	291	191	121	1,390	552	412	805	222	197	654
District 3 Subtotal	4,093	3,187	4,991	6,592	6,124	5,419	6,783	6,311	4,514	7,715	3,914	6,361	5,263	5,847
Lower Yukon River Total	20,258	16,729	17,206	28,513	21,620	20,416	18,209	23,211	21,211	25,002	19,740	26,892	20,897	21,475
Anvik	481	619	389	663	424	450	768	951	1,025	776	205	608	509	745
Grayling	144	874	1,074	1,045	1,843	1,340	1,036	2,391	2,177	2,476	839	1,077	1,235	1,784
Kallag	2,244	1,866	1,084	1,260	1,653	1,890	994	1,036	1,870	2,051	1,074	1,506	1,551	1,405
Nulato	2,788	2,500	1,596	1,660	1,735	1,533	1,461	1,578	4,147	1,799	1,083	2,127	1,805	2,013
Koyukuk	876	895	510	853	589	146	402	851	800	506	175	449	597	547
Galena	3,134	2,574	1,870	1,732	1,834	1,336	2,770	2,350	1,668	2,539	788	1,755	1,869	2,023
Ruby/Kokines	811	971	498	3,263	1,539	1,435	557	2,260	3,891	777	1,577	2,033	1,541	1,812
District 4 Yukon River Subtotal (Excluding the Koyukuk River)	10,478	10,289	7,021	10,476	9,617	8,130	7,988	11,415	15,578	10,924	5,741	9,555	9,107	10,329
Huslia	198	198	751	232	239	932	67	57	23	90	424	377	470	132
Hughes	90	146	29	88	107 d	77	54	34	91	105	50	144	89	67
Alakaket	284	446	395	135	338 d	321	82	423	85	108	41	76	327	148
Alatina	72	5	42	4	26 d	10	2	38	4	10	8	0	17	12
Bellevue	0	16	53	1	0	4	0	39	20	1	0	0	15	12
Koyukuk River Subtotal	644	811	1,270	460	710	1,344	205	891	223	314	523	597	919	371
District 4 Subtotal	11,122	11,100	8,291	10,936	10,327	9,474	8,193	12,006	15,801	11,238	6,264	10,152	10,026	10,700

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Appendix B.1. (page 2 of 2)

Community	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	1991-1995 Average	1996-2000 Average
Tanana	2,284	2,483	2,477	3,362	2,999	2,398	2,741	3,596	5,212	3,388	2,895	4,112	2,744	3,566
Rampart	1,481	988	2,802	1,956	1,354	1,461	1,751	2,203	885	2,018	847	1,857	1,712	1,541
Fairbanks g	420	982	1,394	1,514	1,920	1,447	1,166	955	1,231	851	1,342	1,125	1,451	1,109
Sievens Village	1,295	2,035	1,887	1,754	2,814	2,674	681	2,070	1,232	1,214	466	1,111	2,233	1,133
Birch Creek	0	196	44	0	119	93	0	373	48	24	72	0	90	103
Beaver	721	713	1,564	1,557	850	1,021	886	1,859	470	473	196	1,368	1,141	777
Fort Yukon	4,051	5,585	4,122	6,361	4,727	3,132	4,957	3,145	1,771	2,539	988	2,361	4,765	2,690
Circle	1,767	1,720	1,585	745	1,377	1,145	1,781	1,091	685	524	627	447	1,314	942
Central	184	151	167	210	240	171	131	146	170	91	26	84	188	113
Eagle	1,742	1,193	1,040	753	1,234	1,886	1,092	1,534	2,473	2,558	1,087	1,033	1,221	1,749
Other k	615	374	571	437	602	1,004	377	763	446	488	205	40	598	456
District 5 Yukon River Subtotal (Excluding Chandalar/Black Rivers)	14,560	16,420	17,653	18,649	18,236	16,432	15,563	17,735	14,623	14,166	8,751	13,538	17,478	14,168
Veneta	29	9	35	2,716	524	434	134	314	168	127	103	28	744	169
Chaikytik	0	0	3	0	0	0	30	0	11	35	0	0	1	15
Chandalar/Black Rivers Subtotal	29	9	38	2,716	524	434	164	314	179	162	103	28	744	184
District 5 Subtotal	14,589	16,429	17,691	21,365	18,760	16,866	15,727	18,049	14,802	14,330	8,854	13,566	18,222	14,352
Manley	1,169	401	551	238	480	335	134	242	209	135	58	534	401	156
Minto	100	134	142	468	316	535	523	1,208	275	317	0	197	319	465
Nenana	1,265	1,599	1,267	693	759	607	423	1,082	1,187	975	541	1,405	985	842
Fairbanks m	84	378	402	273	775	285	97	176	230	195	360	313	423	212
Other n	0	3	76	0	40	17	0	4	18	1	24	0	27	9
District 6 Tanana River Subtotal	2,618	2,515	2,438	1,672	2,370	1,779	1,177	2,712	1,919	1,624	983	2,449	2,155	1,883
Upper Yukon River Total	28,329	30,044	28,420	33,973	31,457	28,119	25,097	32,767	32,522	27,192	16,101	26,167	30,403	26,736
Alaska, Yukon River Total p	48,587	46,773	45,626	62,486	53,077	48,535	43,306	55,978	53,733	52,194	35,841	53,059	51,299	48,210
Alaska, Yukon Area Total	48,587	46,773	47,077	63,915	53,902	50,620	45,671	57,117	54,124	53,305	36,404	55,941	52,621	49,324

a Blanks indicate harvest information was not collected.

c Average from 1992 to 1995.

d Due to floods in 1994, Hughes, Allakaket, and Alaina were not surveyed. The 1994 chinook salmon harvest is estimated based on a five-year-average, 1989-1993.

g Harvests by Fairbanks subsistence permit holders who fished in District 5 near the Yukon River bridge crossing.

j Circle and Central harvests are combined in 1989.

k Other permit holders who fished in District 5 but did not reside in the communities listed.

m Harvests by Fairbanks subsistence permit holders who fished in the Tanana River.

n Other permit holders who fished in District 6 but did not reside in the communities listed.

p Does not include the Coastal District.

Appendix B.2 Summer chum salmon subsistence harvest totals by fishing district and community of residence, Yukon Area, 1990-2001. Harvests are estimated from post season survey, returned permits and test fish projects.

Community	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	1991-1995 Average	1996-2000 Average
Hooper Bay			12,900	16,106	10,556	13,374	15,870	12,310	261	10,146	9,301	12,593	13,234 c	9,578
Scammon Bay			3,795	4,692	4,347	3,986	6,365	3,401	1,101	3,315	3,876	1,323	8,720 c	3,612
Coastal District Subtotal	16,695	27,790	33,239	33,986	32,145	34,990	27,289	27,248	26,888	20,169	24,079	22,771	21,954	13,189
Sheldon Point	1,458	2,226	1,415	2,392	1,941	2,979	2,634	2,603	1,872	1,343	3,309	1,942	2,185	2,352
Atkanuk	7,265	8,058	9,951	8,935	5,947	10,538	6,171	7,443	5,643	3,808	6,259	5,982	8,686	6,865
Emmonak	15,215	8,401	12,296	15,568	13,080	11,699	6,097	12,399	9,568	10,310	8,336	8,242	12,204	9,340
Kotlik	13,061	9,105	9,577	7,121	11,197	9,777	12,397	4,803	9,815	4,708	6,173	6,595	9,355	7,577
District 1 Subtotal	36,999	27,790	33,239	33,986	32,145	34,990	27,289	27,248	26,888	20,169	24,079	22,771	21,954	13,189
Mountain Village	9,950	4,743	7,864	10,505	3,938	10,554	9,285	11,310	9,596	10,059	7,074	8,484	7,521	9,465
Pikias Point	1,438	1,452	759	1,481	1,103	1,865	1,619	747	1,302	849	1,728	882	1,292	1,249
St. Marys	8,077	7,832	7,796	5,925	10,128	5,950	6,736	8,874	9,047	6,752	8,094	10,026	7,528	7,901
Pilot Station	6,698	4,634	6,236	5,641	5,450	4,427	6,355	4,532	5,042	5,265	5,223	5,329	5,278	5,283
Marshall	2,290	2,042	2,076	1,745	2,288	4,594	4,431	1,508	1,293	1,212	3,212	1,602	2,549	2,331
District 2 Subtotal	28,453	20,703	24,731	25,297	22,907	27,190	28,426	26,971	26,280	24,137	25,331	26,303	24,166	26,229
Russian Mission	2,146	837	3,331	1,838	801	3,853	3,554	585	702	616	1,318	165	2,092	1,355
Holy Cross	857	1,028	1,001	1,517	1,479	948	1,700	497	269	204	569	460	1,195	658
Shageluk	6,518	3,680	5,267	4,183	6,212	7,542	6,114	9,244	5,501	4,868	1,800	684	5,377	5,505
District 3 Subtotal	9,521	5,545	9,599	7,538	8,492	12,143	11,368	10,316	6,472	5,748	3,687	1,309	8,663	7,518
Lower Yukon River Total	74,973	54,038	67,569	66,821	63,544	74,323	67,083	64,535	59,640	50,054	53,097	50,383	65,259	58,882
Anvik	2,032	876	1,142	1,735	907	9	185	6,306	2,139	848	425	94	934	1,981
Grayling	1,430	8,094	3,605	1,137	1,418	3,395	597	2,446	4,032	4,126	474	92	3,528	2,333
Kallag	6,956	2,287	1,204	1,116	3,683	139	31	73	175	625	169	10	1,686	215
Nulato	502	159	899	15	975	228	1,003	115	3,518	1,945	377	208	453	1,382
Koyukuk	283	2,326	1,130	230	2,039	315	41	739	1,819	187	204	118	1,208	600
Galena	1,760	3,493	3,232	2,477	1,198	1,954	3,902	4,575	2,333	1,688	820	53	2,471	2,664
Ruby/Kokines	351	1,352	2,420	1,459	4,586	4,445	2,016	3,286	2,251	1,697	1,233	1,025	2,852	2,097
District 4 Yukon River Subtotal (Excluding the Koyukuk River)	13,314	18,587	13,622	8,189	14,806	10,475	7,765	17,540	16,267	11,126	3,702	1,600	13,132	11,280
Huslia	7,368	7,857	13,670	8,343	6,014	4,885	2,372	840	449	1,192	745	833	8,154	1,120
Hughes	509	1,257	1,825	627	1,581 d	2,448	1,411	1,579	334	577	1,079	551	1,548	986
Atlatkaket	5,247	6,451	6,368	2,651	4,693 d	6,396	4,668	3,916	901	2,245	1,520	1,604	5,312	2,650
Alatna	72	962	490	52	365 d	140	209	145	13	68	0	0	402	93
Bellevue	24	155	37	34	45	740	0	210	82	100	0	0	202	78
Koyukuk River Subtotal	13,220	16,682	22,190	11,907	12,698	14,609	8,660	6,690	1,779	4,213	3,344	2,988	15,617	4,937
District 4 Subtotal	26,534	35,269	35,812	20,076	27,504	25,084	16,425	24,230	18,046	15,339	7,046	4,588	28,749	16,217

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Appendix B.2. (page 2 of 2)

Community	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	1991-1995 Average	1996-2000 Average
Tanana	5,905	2,779	4,553	4,245	7,022	3,680	5,190	2,526	1,968	1,214	2,848	1,407	4,452	2,749
Rampart	58	20	4,494	1,489	559	1,188	1,188	738	19	60	47	0	1,546	410
Fairbanks g	25	1,068	706	465	360	722	2,958	424	57	348	275	165	664	812
Stevens Village	1,671	1,385	460	853	459	158	530	191	171	26	50	0	623	104
Beaver	108	2,355	12	134	655	38	572	2	15	91	7	328	638	137
Fort Yukon j	145	11,974	1,700	3,630	2,043	988	26	134	30	0	0	289	4,109	38
Circle	1,262	51	265	83	98	70	271	257	1	60	109	6	113	140
Central	5	0	91	2	8	2	53	25	1	0	1	0	21	16
Eagle	361	607	23	32	38	57	105	17	52	271	121	555	151	113
Other m	187	32	291	24	21	232	616	130	2	42	51	0	120	168
District 5 Yukon River Subtotal (Excluding Chandalar/Black Rivers)	9,727	20,271	12,595	10,557	11,263	7,103	11,509	4,444	2,314	2,110	3,509	2,750	12,438	4,777
Venette	0	3,393	0	129	567	552	0	76	0	166	0	106	928	48
Chalkyitsik	90	500	17	0	0	0	0	0	0	0	132	0	103	26
Chandalar/Black Rivers Subtotal	90	3,893	17	129	567	552	0	76	0	166	132	106	1,032	75
District 5 Subtotal	9,817	24,164	12,612	11,086	11,830	7,655	11,509	4,520	2,314	2,276	3,641	2,856	13,469	4,852
Manley	2,250	1,716	850	1,310	1,405	1,657	1,219	576	211	272	240	338	1,388	504
Minto	600	748	625	367	609	1,320	1,421	1,056	148	173	3	19	714	560
Nonana	1,383	1,499	6,372	5,019	1,352	5,043	4,411	1,899	5,041	1,804	775	10	3,857	2,804
Fairbanks n	152	1,096	1,342	97	3,693	3,528	362	271	604	315	90	182	1,051	334
Other p	0	10	315	0	67	113	43	22	0	0	3	0	101	14
District 6 Tanana River Subtotal	4,285	5,069	9,504	6,793	7,026	11,661	7,486	3,824	6,004	2,654	1,111	558	8,011	4,216
Upper Yukon River Total	40,836	64,502	57,928	37,955	46,360	44,400	35,420	32,574	26,364	20,269	11,798	8,902	50,229	9,068
Alaska, Yukon River Total r	115,609	118,540	125,497	104,776	109,904	118,723	102,503	97,109	86,004	70,323	64,895	58,385	115,488	67,950
Alaska, Yukon Area Total	115,609	118,540	142,192	125,574	124,807	136,083	124,738	112,820	87,366	83,784	79,072	72,301	137,442	81,139

a Blanks indicate harvest information was not collected.

c Average from 1992 to 1995.

d Due to floods in 1994, Hughes, Alakaket, and Alaina were not surveyed. The 1994 summer chum salmon harvest is estimated based on a five-year-average, 1989-1993.

g Harvests by Fairbanks subsistence permit holders who fished in District 5 near the Yukon River bridge crossing.

j Includes Birch Creek except in 1990 and 1991. A harvest of one summer chum salmon was estimated in 1997.

m Other permit holders who fished in District 5 but did not reside in the communities listed.

n Harvests by Fairbanks subsistence permit holders who fished in the Tanana River.

p Other permit holders who fished in District 6 but did not reside in the communities listed.

r Does not include the Coastal District.

Appendix B.3 Fall chum salmon subsistence harvest totals by fishing district and community of residence, Yukon Area, 1990-2001. Harvests are estimated from post season survey, returned permits and test fish projects.

Community	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	1991-1995 Average	1996-2000 Average
Hooper Bay			127	113	284	207	392	0	0	0	78	364	183 c	94
Scammon Bay			79	7	63	147	0	0	34	204	11	195	128 c	50
Coastal District Subtotal	206	120	347	354	392	0	34	204	559	311	144			
Sheldon Point	102	84	490	158	25	256	21	337	266	115	105	176	203	169
Alakanuk	267	193	401	182	73	631	100	900	665	558	505	1,032	296	546
Emmonak	2,353	2,027	1,628	1,507	3,441	1,614	1,501	1,039	867	1,849	1,165	1,272	2,043	1,284
Kotlik	2,613	1,631	2,697	5,923	1,348	2,197	2,525	856	1,365	3,980	3,519	957	2,759	2,449
District 1 Subtotal	5,335	3,935	5,216	7,770	4,887	4,698	4,147	3,132	3,163	6,502	5,294	3,437	5,301	4,448
Mountain Village	1,566	1,473	1,052	1,113	797	1,347	1,366	2,698	2,031	1,968	313	470	1,156	1,675
Pitkas Point	150	610	77	288	294	99	603	178	233	53	5	34	270	214
St. Marys	806	1,592	2,356	440	1,062	542	658	310	416	722	255	227	1,198	472
Pilot Station	1,941	1,062	1,170	1,017	1,527	575	448	1,106	1,162	1,155	852	1,522	1,070	945
Marshall	1,724	891	2,727	256	471	754	2,212	388	640	696	0	1,003	1,020	787
District 2 Subtotal	6,187	5,628	7,382	3,094	4,151	3,317	5,287	4,680	4,482	4,594	1,425	3,256	4,714	4,094
Russian Mission	878	425	648	172	11	865	587	0	137	100	37	76	424	172
Holy Cross	1,178	190	845	1,066	665	681	1,814	420	1,095	239	523	624	689	818
Shageluk	0	0	865	211	186	126	305	367	329	76	38	0	278	223
District 3 Subtotal	2,056	615	2,358	1,449	862	1,672	2,706	787	1,561	415	598	700	1,391	1,213
Lower Yukon River Total	13,578	10,178	14,956	12,313	9,900	9,687	12,140	8,599	9,206	11,511	7,317	7,393	11,407	9,755
Anvik	583	452	894	420	155	269	457	514	388	126	175	29	438	332
Grayling	1,405	3,616	2,993	2,083	811	1,155	1,759	1,531	648	1,370	284	314	2,132	1,118
Kallag	2,327	2,834	2,522	704	630	644	1,049	1,142	499	764	190	607	1,467	729
Nulato	3,546	1,637	1,910	571	1,109	1,137	2,299	697	367	2,338	0	151	1,273	1,140
Koyukuk	860	2,761	2,817	2,052	1,049	814	2,458	1,954	1,583	1,544	239	517	1,899	1,556
Galena	3,202	5,525	2,393	3,255	3,963	3,202	6,620	3,370	1,915	1,932	564	420	3,668	2,880
Ruby/Kokirnes	3,352	2,856	4,499	1,085	5,553	4,695	561	2,195	2,427	907	64	591	3,738	1,231
District 4 Yukon River Subtotal (Excluding the Koyukuk River)	15,275	19,681	18,028	10,170	13,270	11,916	15,203	11,403	7,827	8,981	1,516	2,619	14,613	8,986
Huslia	846	411	1,286	258	55	1,035	298	10	0	89	35	683	609	86
Hughes	70	270	325	169	0 d	263	274	51	60	84	157	0	205	125
Allakaket	2,470	475	1,452	233	0 d	260	961	270	11	20	50	50	484	280
Alatna	580	38	127	2	0 d	0	0	0	0	0	15	0	33	3
Beetles	0	0	14	0	0	583	50	0	0	0	0	0	119	10
Koyukuk River Subtotal	3,966	1,194	3,204	662	55	2,141	1,583	331	71	193	243	733	1,451	484
District 4 Subtotal	19,241	20,875	21,232	10,832	13,325	14,057	16,786	11,734	7,898	9,174	1,759	3,352	16,064	9,470

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Appendix B.3. (page 2 of 2)

Community	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	1991-1995 Average	1996-2000 Average
Tanana	41,145	40,888	19,365	23,103	34,661	14,409	21,420	25,058	24,956	22,305	9,384	9,779	26,485	20,625
Rampart	10,818	5,801	3,272	3,272	1,007	1,403	896	646	100	4,324	0	183	3,437	1,193
Fairbanks g	82	2,022	2,491	930	2,870	2,184	2,727	491	96	681	8	0	2,099	801
Stevens Village	3,857	2,481	150	862	45	3,194	991	1,585	1,076	20	10	20	1,346	735
Beaver	757	7	361	692	2,069	1,231	9	1,585	409	16	0	21	872	135
Fl. Yukon j	11,627	7,467	2,284	2,380	6,827	9,196	8,144	6,119	3,035	9,702	355	2,209	5,631	5,471
Circle	6,639	6,340	6,279	349	4,581	5,102	5,308	3,707	37	2,722	0	2,588	4,530	2,355
Central	165	73	100	0	0	0	132	0	0	0	0	0	35	26
Eagle	8,027	7,985	5,630	2,070	8,263	13,115	14,916	14,488	543	11,292	32	2,714	7,413	8,254
Other m	529	100	0	1,750	0	830	505	421	50	65	1	0	536	208
District 5 Yukon River Subtotal (Excluding Chandalar/Black Rivers)	83,646	73,144	42,361	35,408	60,343	50,664	55,048	52,758	30,302	51,127	9,790	17,514	52,384	39,805
Venetie	5,377	758	3,066	7,881	4,302	6,085	7,195	1,564	658	2,011	130	3,286	4,418	2,312
Chaikyltsik	1,490	100	274	475	1,751	845	1,230	936	433	442	0	73	689	608
Chandalar/Black Rivers Subtotal	6,867	858	3,340	8,356	6,053	6,930	8,425	2,500	1,091	2,453	130	3,359	5,107	2,920
District 5 Subtotal	90,513	74,002	45,701	43,764	66,396	57,594	63,473	55,258	31,393	53,580	9,920	20,873	57,491	42,725
Manley	25,860	13,243	7,010	3,215	13,722	20,272	10,662	5,887	4,411	5,172	0	1,230	11,492	5,226
Minto	3,652	5,276	3,017	301	1,419	4,782	4,381	2,361	505	781	2	251	2,959	1,606
Nenana	12,464	17,932	13,253	5,929	11,201	15,500	14,207	3,799	6,781	5,819	8	999	12,763	6,083
Fairbanks n	309	1,671	1,394	56	5,006	6,384	5,736	4,031	960	1,630	0	201	2,902	2,471
Other p	2,283	2,347	1,039	352	2,249	2,230	1,481	3,472	1,713	2,269	300	855	1,643	1,647
District 6 Tanana River Subtotal	44,568	40,469	25,713	9,853	33,597	49,168	36,467	19,550	14,370	15,471	310	3,536	31,760	17,234
Upper Yukon River Total	154,322	135,346	92,646	64,449	113,318	120,819	116,726	86,542	53,661	78,225	11,989	27,761	105,316	69,429
Alaska, Yukon River Total q	167,900	145,524	107,602	76,762	123,218	130,506	128,866	95,141	62,867	89,736	19,306	35,154	116,722	79,183
Alaska, Yukon Area Total	167,900	145,524	107,808	76,882	123,565	130,860	129,258	95,141	62,801	89,940	19,395	35,713	117,034	79,327

a Blanks indicate harvest information was not collected.

c Average harvest is from 1992 to 1995.

d Due to floods in 1994, Hughes, Alakakei, and Alaina were not surveyed and the estimated harvest of fall chum salmon was zero.

g Harvests by Fairbanks subsistence permit holders who fished in District 5 near the Yukon River bridge crossing.

j Includes Birch Creek except in 1990 and 1991. A harvest of zero fall chum salmon has been estimated in all years surveyed.

m Other permit holders who fished in District 5 but did not reside in the communities listed.

n Harvests by Fairbanks subsistence permit holders who fished in the Tanana River.

p Other permits holders who fished in District 6 but did not reside in the communities listed.

q Does not include the Coastal District.

Appendix B.4 Coho salmon subsistence harvest totals by fishing district and community of residence, Yukon Area, 1990-2001. Harvests are estimated from post season survey, returned permits and test fish projects.

Community	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	1991-1995 Average	1996-2000 Average
Hooper Bay			28	0	1	48	92	0	145	68	218	439	19 c	105
Scammon Bay			31	40	80	104	0	0	204	0	4	63	42 c	42
Coastal District Subtotal			59	40	81	152	92	0	349	68	222	502	61	146
Sheldon Point	78	35	441	78	52	419	138	51	229	51	5	32	205	95
Alakanuk	156	391	966	138	94	658	103	882	292	108	84	414	449	294
Emmonak	1,283	801	666	156	959	485	594	356	696	525	191	342	621	472
Kotlik	1,784	581	3,353	1,931	2,167	689	1,610	534	954	1,046	787	486	1,744	986
District 1 Subtotal	3,301	1,808	5,426	2,343	3,272	2,251	2,445	1,823	2,171	1,730	1,067	1,274	3,020	1,847
Mountain Village	1,754	868	1,971	447	968	921	276	1,089	954	665	376	423	1,035	672
Pikas Point	52	347	641	349	364	554	691	427	305	302	139	112	451	373
St. Marys	463	1,270	2,130	102	614	154	292	329	290	536	117	610	854	313
Pilot Station	1,968	553	300	477	811	241	1,258	323	413	249	1,708	222	476	790
Marshall	2,107	259	1,545	320	1,124	272	958	256	335	1,041	11	73	704	520
District 2 Subtotal	6,344	3,297	6,587	1,695	3,881	2,142	3,475	2,424	2,297	2,793	2,351	1,440	3,520	2,688
Russian Mission	688	396	1,148	152	55	891	255	10	233	542	24	0	528	213
Holy Cross	338	944	105	88	171	0	0	20	100	62	70	0	262	50
Shageluk	0	0	296	39	137	0	189	736	67	6	0	0	94	200
District 3 Subtotal	1,026	1,340	1,549	279	363	891	444	766	400	610	94	0	884	463
Lower Yukon River Total	10,671	6,445	13,562	4,317	7,516	5,284	6,364	5,013	4,868	5,133	3,512	2,714	7,425	4,978
Anvik	236	347	202	115	95	10	44	24	20	282	0	13	154	74
Grayling	10	1,363	859	164	36	97	236	1,055	133	201	372	144	504	399
Kallag	501	1,260	2,105	334	245	426	298	60	71	333	110	533	874	174
Nulato	845	75	435	37	27	25	149	444	34	170	60	258	120	171
Koyukuk	162	307	1,877	70	305	33	295	345	421	295	138	80	518	335
Galena	572	422	1,398	124	803	275	780	1,002	322	123	71	142	604	460
Ruby/Kokrine	974	410	1,299	308	1,957	607	376	474	1,459	620	173	871	916	620
District 4 Yukon River Subtotal (Excluding the Koyukuk River)	3,300	4,184	8,175	1,152	3,468	1,473	2,359	3,404	2,460	2,024	924	2,041	3,690	2,234
Huslia	235	150	233	9	47	307	18	50	128	15	132	83	149	69
Hughes	43	9	21	3	0 d	153	51	250	5	10	12	117	37	66
Alakaket	31	25	0	3	0 d	0	39	50	0	0	0	25	6	18
Alatna	5	83	0	0	0 d	0	0	0	0	0	0	0	17	0
Bettles	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Koyukuk River Subtotal	314	267	254	15	47	461	108	350	133	25	144	225	209	152
District 4 Subtotal	3,614	4,451	8,429	1,167	3,515	1,934	2,467	3,754	2,593	2,049	1,068	2,266	3,899	2,386

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Community	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	1991-1995 Average	1996-2000 Average
Tanana	8,580	4,448	11,405	5,576	2,597	2,154	6,110	3,045	2,572	3,989	4,826	6,675	5,234	4,108
Rampart	591	58	75	38	99	0	5	34	20	126	0	0	54	37
Fairbanks f	5	8	34	0	25	18	42	26	17	0	2	11	17	16
Stevens Village	479	0	20	0	0	0	2	1	63	0	0	2	4	13
Beaver	172	1	398	135	10	20	7	0	0	0	0	0	113	1
Fort Yukon h	727	380	341	5	963	4	157	251 j	39	124	129	972	339	140
Circle	201	5	54	10	30	0	0	210	0	0	0	0	20	42
Central	5	0	0	0	0	0	0	0	0	0	0	0	0	0
Eagle	0	0	3	85	0	1	1	2	132	0	0	0	18	27
Other i	450	12	0	0	0	7	0	0	2	2	30	0	4	7
District 5 Yukon River Subtotal (Excluding Chandalar/Black Rivers)	11,210	4,912	12,331	5,849	3,714	2,205	6,324	3,569	2,839	4,241	4,987	7,660	5,802	4,392
Venelle	348	12	45	135	4	0	264	7	0	0	0	10	39	54
Chalkyitsik	4	7	0	0	456	0	0	7	0	0	0	4	93	1
Chandalar/Black River Subtotal	352	19	45	135	460	0	264	14	0	0	0	14	132	56
District 5 Subtotal	11,562	4,931	12,376	5,984	4,174	2,205	6,588	3,583	2,839	4,241	4,987	7,674	5,934	4,448
Manley	7,574	6,361	4,725	1,535	10,410	7,395	2,462	3,236	2,362	3,244	2,190	2,637	6,085	2,697
Minto	818	526	614	300	2,616	338	1,223	364	31	0	3	0	879	324
Nenana	7,381	10,171	8,895	1,314	9,387	7,142	7,883	5,147	3,519	4,023	1,767	4,443	7,382	4,468
Fairbanks k	66	2,501	2,281	0	2,103	3,076	2,314	1,230	786	868	0	102	1,992	1,040
Other m	1,774	2,002	1,039	1,155	1,973	851	1,011	1,618	774	1,259	1,200	1,818	1,404	1,172
District 6 Tanana River Subtotal	17,613	21,561	17,554	4,304	26,489	18,802	14,893	11,595	7,472	9,394	5,150	9,000	17,742	9,701
Upper Yukon Area Total	32,789	30,943	30,359	11,455	34,178	22,841	23,948	18,932	12,904	15,684	11,205	18,940	27,575	16,535
Alaska, Yukon River Total n	43,460	37,388	51,921	15,772	41,694	28,225	30,312	23,945	17,772	20,817	14,717	21,654	35,000	21,513
Alaska, Yukon Area Total	43,460	37,388	51,980	15,812	41,775	28,377	30,404	23,945	18,121	20,885	14,939	22,156	35,061	21,659

a Blanks indicate harvest information was not collected.

c Average harvest from 1992 to 1995.

d Due to floods in 1994, Hughes, Allakaket, and Alaina were not surveyed and the estimated harvest of coho salmon was zero.

f Harvests by Fairbanks subsistence permit holders who fished in District 5 near the Yukon River bridge crossing.

h Includes Birch Creek except in 1990 and 1991. A harvest of three coho salmon was estimated in 1997.

j Other permit holders who fished in District 5 but did not reside in the communities listed.

k Harvests by Fairbanks subsistence permit holders who fished in the Tanana River.

m Other permits holders who fished in District 6 but did not reside in the communities listed.

n Does not include the Coastal District.

Subdistrict 6-A Personal Use Salmon Fishery

Year	Number of Permits Issued	Number of Permits Returned	Number Reporting Harvest	Reported Harvest			Coho
				Chinook	Summer Chum	Fall Chum	
1987	0	0	0			0	
1988	1	1	0	0	0	0	0
1989	1	1	1	0	4	0	0
1990	1	1	0	0	0	0	0
1991	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0
1997 b	0	0	0	0	0	0	0

Subdistrict 6-B Personal Use Salmon Fishery

Year	Number of Permits Issued	Number of Permits Returned	Number Reporting Harvest	Reported Harvest			Coho
				Chinook	Summer Chum	Fall Chum	
1987	0	0	0			0	
1988	1	1	1	306	60	40	22
1989	1	1	1	56	220	0	0
1990	4	4	3	9	12	40	35
1991	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0
1997 b	0	0	0	0	0	0	0

Subdistrict 6-C Personal Use Salmon Fishery

Year	Number of Permits Issued	Number of Permits Returned	Number Reporting Harvest	Reported Harvest			Coho
				Chinook	Summer Chum	Fall Chum	
1987	132 c	-	60 d			3,316	2,465
1988	208	162	120	317	1,182	2,074	1,125
1989	175	160	112	397	991	1,770	731
1990	152	144	102	442	918	1,353	1,120
1991 f	0	0	0	0	0	0	0
1992 f	0	0	0	0	0	0	0
1993	133	131	79	426	674	163	0
1994 f	0	0	0	0	0	0	0
1995	139	138	91	399	780	863	417
1996	129	125	73	215	905	356	198
1997	112	109	61	313	391	284	350
1998	103	101	52	357	84	2	9
1999 g	103	103	67	331	382	261	147
2000	70	69	16	75	30	1	0
2001	56	52	24	122	146	10	34
1996-2000 Average	103	101	54	258	358	181	141

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Upper Tanana River Personal Use Salmon Fishery

Year	Number of Permits Issued	Number of Permits Returned	Number Reporting Harvest	Reported Harvest			
				Chinook	Summer Chum	Fall Chum	Coho
1987	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0
1991 h	0	0	0	0	0	0	0

a Personal use fishery during 1987 applied to nonrural residents harvesting only fall chum salmon. Beginning in 1988, nonrural personal use fishing applied to all salmon species and reported harvest is from returned permits only. Effective July 1, 1990 all Alaskan residents became eligible for subsistence fishing permits. In 1993 the Board established the Fairbanks Nonsubsistence Area (FNA), this designated fishermen residing in the area as personal use harvesters. In 1994 a Superior Court decision invalidated the FNA and subsistence regulations applied. In 1995 the Board amended the FNA to apply personal use regulations to all fishermen fishing in the area. Dashes in the table indicate the information is not available.

b After 1997 the regulations did not provide for a personal use fishery in these areas.

c Includes 60 former subsistence fishermen who were reissued personal use permits to fish for fall chum salmon

d Some fishing families used both subsistence and personal use permits.

f From July 1, 1990 through 1992, and in 1994, the regulations did not provide for a personal use fishery in this area.

g Does not include four whitefish and sucker fishery permit holders, two of which fished, that reported a total harvest of one fall chum and six coho salmon in 1999.

h After July 1, 1991 the regulations did not provide for a personal use salmon fishery in this area.

Appendix B.6. Subsistence salmon harvests taken under authority of a permit in portions of District 5, Yukon Area, 1974-2001. a

Yukon River "Bridge" Area Subsistence Salmon Fishery b							
Year	Number of Permits Issued	Number of Permits Returned	Number Reporting Harvest	Reported Harvest			Coho
				Chinook	Summer Chum c	Fall Chum c	
1974	29	-	-	591	-	1,857	1,271
1975	19	-	-	727	-	778	70
1976	28	-	18	531	-	974	-
1977	38	-	-	467	-	2,567	-
1978	57	-	-	1,333	-	9,735	-
1979	55	-	41	2,194	-	12,374	-
1980	70	-	67	1,350	-	6,488	36
1981	57	-	24	1,095	-	12,034	-
1982	64	-	44	1,935	-	11,328	20
1983	68	-	46	2,672	-	15,059	-
1984	67	-	54	4,676	-	27,869	399
1985	55	-	42	2,818	-	21,832	33
1986	76	-	58	3,827	-	18,690	759
1987	16	-	14	1,818	2,091	7,631	6
1988	24	21	18	1,747	2,097	3,183	606
1989	26	20	13	2,483	574	1,157	309
1990	26	25	16	2,033	3,493	1,109	455
1991	52	46	34	2,529	1,296	3,953	20
1992	45	42	33	2,241	975	2,491	34
1993	49	47	36	3,767	492	2,915	16
1994	50	49	36	3,073	384	2,911	25
1995	59	59	39	3,253	954	2,244	59
1996	47	45	31	1,157	3,475	2,727	42
1997	44	42	28	1,588	683	491	26
1998	48	47	31	1,685	103	156	15
1999	66	64	47	1,853	356	701	2
2000	56	52	33	1,607	324	8	32
2001	65	60	35	1,819	176	0	13
Five Year Average							
1996-2000	52	50	34	1,538	986	817	23
Ten Year Average							
1991-2000	52	49	35	2,255	904	1,860	27

Upper Yukon River Subsistence Salmon Fishery d							
Year	Number of Permits Issued	Number of Permits Returned	Number Reporting Harvest	Reported Harvest			Coho
				Chinook	Summer Chum c	Fall Chum c	
1979	75	-	6	4,063	-	30,475	114
1980	48	-	39	3,649	-	18,477	6
1981	71	-	51	4,510	-	38,333	-
1982	60	-	61	3,833	-	15,432	-
1983	53	-	52	2,831	-	23,708	-
1984	58	-	54	2,543	-	21,675	17
1985	59	-	36	2,419	-	19,059	2
1986	40	-	52	4,148	-	20,701	43
1987	51	51	58 f	3,602	2,495	27,369	0
1988	58	57	50	2,783	2,134	9,078	101
1989	59	56	42	1,186	68	7,515	1
1990	81	75	54	3,746	1,629	14,992	206
1991	70	69	48	3,219	658	14,898	5
1992	85	79	54	2,984	409	12,009	57
1993	79	79	49	1,910	118	2,419	95
1994	79	76	51	3,093	145	12,844	30
1995	87	87	53	3,628	129	19,047	1
1996	86	84	51	3,458	528	20,861	1
1997	98	93	60	3,148	393	18,616	212
1998	101	95	54	3,562	55	630	132
1999	119	116	71	3,404	364	14,079	0
2000	121	118	47	1,806	233	33	0
2001	98	90	32	1,688	651	5,322	0
Five Year Average							
1996-2000	105	101	57	3,076	315	10,844	69
Ten Year Average							
1991-2001	93	90	54	3,021	303	11,544	53

a Prior to 1988 the reported harvest was expanded for permits not returned. Beginning in 1988, reported harvest was not expanded.

b That portion of the Yukon River drainage from Hess Creek to Dali River.

c Summer chum and fall chum salmon undifferentiated from 1974-1986.

d That portion of the Yukon River drainage from Twenty-Two Mile Slough, above the village of Fort Yukon, to the United States/Canadian border.

f Some fishermen reporting harvests did not have permits.

Appendix B.7. Subsistence salmon harvests taken under authority of a permit, Tanana River drainage, 1973-2001. a

Subdistrict 6-A Subsistence Salmon Fishery							
Year	Number of Permits Issued	Number of Permits Returned	Number Reporting Harvest	Reported Harvest			Coho
				Chinook	Summer Chum	Fall Chum	
1988 b	28	24	18	845	1,389	9,165	3,455
1989 b, c	29	28	24 d	651	1,918	25,266	5,292
1990 c	42	36	26	1,369	2,250	27,957	8,408
1991	45	41	31	420	1,716	17,472	8,486
1992	38	35	26	508	450	5,999	5,028
1993 c	42	41	22	331	784	2,617	1,317
1994 f	37	37	30	576	3,793	18,076	12,449
1995	41	38	29	456	4,898	23,522	11,344
1996	31	29	23	209	1,338	18,931	5,959
1997	33	32	21	887	542	10,621	3,703
1998	31	31	19	512	519	4,726	1,626
1999	24	24	14	137	525	5,712	3,464
2000	24	24	12	80	240	0	2,441
2001	22	20	10	398	327	1,330	2,637
Five Year Average 1996-2000							
	29	28	18	365	633	7,998	3,419

Subdistrict 6-B Subsistence Salmon Fishery							
Year	Number of Permits Issued	Number of Permits Returned	Number Reporting Harvest	Reported Harvest g			Coho
				Chinook	Summer Chum	Fall Chum	
1988	75	66	52	3,721	3,167	18,902	18,906
1989 h	60	51	37 d	455	363	18,506	8,453
1990 h	70	58	38	1,234	1,966	16,332	9,155
1991 h	87	78	51	1,796	2,373	21,629	11,971
1992 h	98	89	57	1,587	7,820	18,782	11,409
1993	99	89	38	1,341	5,976	7,166	2,987
1994	102	94	49	1,337	2,035	13,726	12,480
1995	98	98	59	1,322	6,712	25,364	7,458
1996	105	96	59	968	6,138	17,439	8,934
1997	103	95	55	1,825	3,282	8,729	7,892
1998	94	84	46	1,407	5,485	9,573	5,937
1999	83	79	47	1,487	2,129	9,757	5,930
2000	81	79	33	903	869	210	2,709
2001	87	77	42	1,511	74	1,983	5,646
Five Year Average 1996-2000							
	93	87	48	1,318	3,581	9,142	6,280

-Continued-

Subdistrict 6-C Subsistence Salmon Fishery							
Year	Number of Permits Issued	Number of Permits Returned	Number Reporting Harvest	Reported Harvest			Coho j
				Chinook	Summer Chum	Fall Chum	
1973	22	-	4	26	771	886	-
1974	70	-	-	38	1,373	1,580	-
1975	36	-	-	32	751	864	-
1976	110	-	-	31	1,314	1,512	-
1977	89	-	33	81	118	607	-
1978	160	-	126	126	2,729	1,188	-
1979	246	-	199	264	2,384	4,459	-
1980	315	-	254	282	3,729	4,059	-
1981	346	-	228	440	3,239	5,770	-
1982	330	-	209	451	2,708	4,521	-
1983	259	-	147	475	2,276	3,830	-
1984	308	-	212	321	3,177	5,134	-
1985	291	-	155	326	2,846	3,937	-
1986	323	-	211	637	4,031	4,437	-
1987 k	217	-	123	531	2,739	0	0
1988	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0
1990 m	19	18	6	15	69	279	50
1991	149	142	98	299	980	1,080	1,089
1992	149	146	90	343	1,234	896	1,116
1993 n	0	0	0	0	0	0	0
1994 p, r	145	142	107	457	1,198	1,600	1,545
Five Year Average 1990-1994	92	90	60	223	696	771	760

Upper Tanana River Drainage Subsistence Salmon Fishery							
Year	Number of Permits Issued	Number of Permits Returned	Number Reporting Harvest	Reported Harvest			Coho
				Chinook	Summer Chum	Fall Chum	
1988	0	0	0	0	0	0	0
1989	2	2	2	5	0	39	0
1990	1	1	0	0	0	0	0
1991	8	7	6	0	0	288	14
1992	11	11	4	0	0	36	1
1993	10	10	8	0	0	5	0
1994	7	7	3	0	0	202	15
1995	50	46	12	0	0	88	0
1996	42	39	15	0	10	97	0
1997	61	58	26	0	0	200	0
1998	46	46	17	0	0	71	9
1999	29	29	13	0	0	2	0
2000	41	36	16	0	2	100	0
2001	57	47	21	0	0	2	1
Five Year Average 1996-2000	44	42	17	0	2	94	2

a Prior to 1988, salmon harvests were expanded for permits not returned. Beginning in 1988, the reported harvests were not expanded. Dashes in the table indicate the information is not available.

b Many Subdistrict 6-A fishermen did not obtain a permit in 1988 and 1989.

c Includes salmon given away as part of the department's test fishing project in Manley.

d Includes harvests reported by fishermen who did not have permits.

f Beginning in 1994, a separate Kantishna River drainage permit was required. The Subdistrict 6-A harvest totals include those from the Kantishna River drainage.

g Includes small numbers of salmon harvested and reported on the Tolovana River drainage (Subdistrict 6-B) subsistence pike permit, established in 1993.

h Includes salmon given away as part of the department's test fish project in Nenana.

j Prior to 1988 fall chum and coho salmon were not reported as separate species.

k Personal use fishery established for nonrural residents beginning in July of 1987.

m Some fishermen had both personal use and subsistence permits. The McDowell Decision became effective July 1990, (midway through the season), and stated that all Alaskan residents were eligible subsistence participants.

n Personal use fishery was established for those fishing for salmon in the Fairbanks Nonsubsistence Area, which includes Subdistrict 6-C.

p No personal use permits were issued in 1994 for this area.

r After 1994 subsistence regulations were repealed within the Fairbanks Nonsubsistence Area, which includes Subdistrict 6-C.

Appendix B.8. Estimated number of salmon distributed from test fish projects, Yukon Area, 1992 to 2001. a

	Year	Set Gillnet Test Fish	Drift Gillnet Test Fish Projects							Test Fish Wheel Projects b					Total
		Lower Yukon	Lower Yukon	Mountain Village	Pilot Station	Marshall	Marshall c	Russian Mission c	Kaltag	Galena	Manley	Nenana	Tanana	Fort Yukon	
Chinook Salmon	1992	1,715	-	-	-	-	-	-	-	-	0	113	-	-	1,828
	1993	1,584	-	-	471	-	-	-	-	-	0	0	0	-	2,055
	1994	1,985	-	-	334	-	-	-	-	-	0	0	0	-	2,319
	1995	1,715	-	1	166	-	-	-	-	2	1	0	0	0	1,885
	1996	1,355	-	0	0	-	-	-	-	-	0	0	0	0	1,355
	1997	1,825	-	2	330	-	-	-	-	-	0	0	0	0	2,157
	1998	1,035	-	8	435	-	-	-	-	-	0	0	0	-	1,478
	1999	1,656	-	1	359	773	-	-	1	-	0	0	0	-	2,790
	2000	1,344	-	0	450	1,024	11	23	0	-	-	0	0	-	2,852
	2001	1,379	535	-	561	-	27	11	-	-	-	0	-	-	2,513
Five Year Average															
1995 to 1999		1,517		2	258	-	-	-	-	-	0	0	0	-	1,933
Summer Chum Salmon	1992	3,989	-	-	-	-	-	-	-	-	0	112	-	-	4,101
	1993	4,111	-	-	2,098	-	-	-	-	-	33	0	0	-	6,242
	1994	7,060	-	-	2,998	-	-	-	-	-	0	0	0	-	10,058
	1995	6,382	-	0	1,875	-	-	-	-	57	50	0	0	0	8,364
	1996	7,052	-	0	276	-	-	-	-	-	0	0	0	0	7,328
	1997	4,539	-	0	2,420	-	-	-	-	-	0	0	0	-	6,959
	1998	2,290	-	0	2,209	-	-	-	-	-	0	0	147	-	4,646
	1999	2,717	-	0	1,636	181	-	-	0	-	0	0	0	-	4,534
	2000	2,499	-	0	2,141	335	0	0	0	-	-	0	0	-	4,980
	2001	211	1,787	-	1,696	-	1	2	-	-	-	0	-	-	3,697
Five Year Average															
1995 to 1999		4,596		0	1,683	-	-	-	-	-	10	0	29	-	6,366
Fall Chum Salmon	1992	2,462	-	-	-	-	-	-	-	-	0	110	-	-	2,572
	1993	3,692	-	-	652	-	-	-	-	-	65	0	0	-	4,409
	1994	2,566	-	-	1,349	-	-	-	-	-	0	7	1,895	-	5,817
	1995	2,408	-	523	541	-	-	-	-	199	194	0	1,876	1,570	7,311
	1996	1,421	-	319	150	-	-	-	-	-	0	0	0	1,081	2,971
	1997	1,466	-	962	997	-	-	-	-	-	0	0	0	-	3,425
	1998	2,000	-	664	1,110	-	-	-	-	-	0	0	0	-	3,774
	1999	4,061	-	1,008	968	0	-	-	483	-	0	0	0	-	6,520
	2000	2,921	-	269	834	0	0	0	190	-	-	0	0	-	4,214
	2001	-	1,694	339	1,492	-	-	-	494	-	-	0	0	-	4,019
Five Year Average															
1996 to 2000		2,374	-	644	812	-	-	-	-	-	0	0	0	-	4,181
Coho Salmon	1992	2,557	-	-	-	-	-	-	-	-	0	0	-	-	2,557
	1993	1,210	-	-	222	-	-	-	-	-	0	0	0	-	1,432
	1994	2,033	-	-	786	-	-	-	-	-	0	0	266	-	3,085
	1995	579	-	559	205	-	-	-	-	0	0	0	164	0	1,507
	1996	755	-	228	25	-	-	-	-	-	0	0	0	0	1,008
	1997	593	-	309	283	-	-	-	-	-	0	0	0	-	1,185
	1998	792	-	567	364	-	-	-	-	-	0	0	0	-	1,723
	1999	649	-	2	180	0	-	-	70	-	0	0	0	-	901
	2000	949	-	313	1,705	0	0	0	110	-	-	0	0	-	3,399
	2001	-	492	302	180	-	-	-	251	-	-	0	0	-	1,225
Five Year Average															
1996 to 2000		748	-	284	511	-	-	-	-	-	0	0	0	-	1,643

a Dashes indicate test fish project was not in operation.

b Does not include salmon that were accounted for by using the survey or permit methods.

c Chinook salmon radio telemetry project.

Appendix B.9. Estimated pink salmon subsistence harvest by residents of surveyed villages, Yukon Area, 1994 to 2001.

Community	Estimated Total										
	1994 a	1995	1996	1997	1998	1999	2000	2001	Even Years Average	Odd Years Average	1994 to 2000 Average
Hooper Bay	734	326	3,212	265	1,941	99	902	32	1,697	181	1,068
Scammon Bay	1,319	559	305	0	1,791	527	96	362	878	362	657
Coastal District	2,053	885	3,517	265	3,732	626	998	394	2,575	542	1,725
Sheldon's Point	1,388	1	262	1	299	0	0	0	487	1	279
Alakanuk	54	124	35	33	239	0	38	0	92	39	75
Emmonak	1,451	5	46	35	145	17	0	9	411	16	243
Kotlik	1,340	2	100	0	907	15	263	0	653	4	375
District 1	4,233	132	443	69	1,590	32	301	9	1,642	60	971
Mountain Village	806	35	611	10	753	0	61	0	558	11	325
Pitkas Point	163	4	280	101	330	12	114	0	222	29	143
St. Mary's	850	0	42	4	467	1	54	0	353	1	203
Pilot Station	32	0	0	0	0	8	6	0	10	2	7
Marshall	880	6	0	0	0	0	0	0	220	2	127
District 2	2,731	45	933	115	1,550	21	235	0	1,362	45	804
Russian Mission	200	0	0	0	211	0	8	0	105	0	60
Holy Cross	89	0	140	0	150	0	20	0	100	0	57
Shageluk	0	0	40	0	1,256	0	0	0	324	0	185
District 3	289	0	180	0	1,617	0	28	0	529	0	302
Anvik	475	0	0	0	50	0	30	0	139	0	79
Grayling	451	0	4	0	649	1	0	0	276	0	158
Katag	0	0	0	11	1	1	0	0	0	3	2
Nulato	4	0	0	0	0	0	0	0	1	0	1
Koyukuk	4	0	0	23	0	0	0	0	1	6	4
Galeana	61	0	52	0	0	0	0	0	28	0	16
Ruby	0	0	3	0	0	0	1	0	1	0	1
Huslia	0	0	0	0	0	0	0	0	0	0	0
Hughes	0	0	0	0	0	0	0	0	0	0	0
Allakaket	0	0	0	0	0	0	0	0	0	0	0
Alatna	0	0	0	0	0	0	0	0	0	0	0
Bettles	0	0	0	0	0	0	0	0	0	0	0
District 4	995	0	59	34	700	2	31	0	446	9	260
Tanana	0	0	0	0	0	0	0	0	0	0	0
Rampart	0	0	0	0	0	0	0	0	0	0	0
Stevens Village	0	0	0	0	0	0	0	0	0	0	0
Birch Creek	0	0	0	0	0	0	0	0	0	0	0
Beaver	0	0	0	0	0	0	0	0	0	0	0
Fort Yukon	0	0	0	0	0	0	0	0	0	0	0
Venette	0	0	0	0	0	0	0	0	0	0	0
Chalkyitsik	0	0	0	0	0	0	0	0	0	0	0
District 5	0	0	0	0	0	0	0	0	0	0	0
Survey Totals	10,301	1,062	5,132	483	9,189	681	1,593	403	6,554	657	4,063
CI (95%) b	2,496	635	2,204	290	2,511	621	559	416			

a Due to floods in 1994, Hughes, Allakaket, and Alatna were not surveyed and the estimated harvest of pink salmon was zero.

b Includes annual 95 percent confidence interval, CI (95%).

Appendix B.10. Households with dogs, number of dogs, and salmon fed to dogs, as estimated in surveyed villages or reported in permit areas, Yukon Area, 1990-2001. a

Districts Survey or Permit	Number of Households with Dogs	Number of Dogs	Summer Chum Salmon Fed to Dogs	Fall Chum Salmon Fed to Dogs	Coho Salmon Fed to Dogs	Total Salmon Fed to Dogs
1990						
Coastal District Survey	-	-	-	-	-	-
District 1 Survey	-	455	2,859	372	0	3,231
District 2 Survey	-	775	3,278	415	3,665	7,358
District 3 Survey	-	272	8,248	120	166	8,534
District 4 Survey	-	1,385	91,256	6,911	2,511	100,678
District 5 Survey	-	1,286	5,697	72,424	9,118	87,239
District 5 Permit b	-	-	-	-	-	-
District 6 Permit	-	-	-	-	-	-
Totals	0	4,173	111,338	80,242	15,460	207,040
1991						
Coastal District Survey	-	-	-	-	-	-
District 1 Survey	-	349	30	0	16	46
District 2 Survey	-	543	723	652	874	2,249
District 3 Survey	-	145	1,747	150	0	1,897
District 4 Survey	-	1,660	169,866	903	591	171,360
District 5 Survey	-	1,520	28,518	54,657	2,754	85,929
District 5 Permit b	49	400	-	-	-	11,522
District 6 Permit	220	1,980	-	-	-	19,479
Totals	269	6,597	200,884	56,362	4,235	292,482
1992						
Coastal District Survey	133	513	659	0	0	659
District 1 Survey	262	617	512	1,000	153	1,665
District 2 Survey	285	971	694	247	2,237	3,178
District 3 Survey	113	507	4,893	74	37	5,004
District 4 Survey	436	2,065	139,513	6,950	3,323	149,786
District 5 Survey	323	1,577	12,897	38,529	14,529	65,955
District 5 Permit b	52	492	-	-	-	7,026
District 6 Permit	255	2,270	-	-	-	18,115
Totals	1,859	9,012	159,168	46,800	20,279	251,388
1993						
Coastal District Survey	150	391	0	0	0	0
District 1 Survey	280	690	654	70	22	746
District 2 Survey	232	880	794	260	670	1,724
District 3 Survey	118	447	2,671	734	162	3,567
District 4 Survey	435	1,645	44,793	3,905	579	49,277
District 5 Survey	348	1,840	5,490	38,888	5,147	49,525
District 5 Permit b	54	1,031	-	-	-	1,133
District 6 Permit	143	1,857	-	-	-	1,547
Totals	1,760	8,781	54,402	43,857	6,580	107,519
1994						
Coastal District Survey	161	367	1,287	0	0	1,287
District 1 Survey	288	819	267	144	384	795
District 2 Survey	286	1,074	1,066	653	2,470	4,189
District 3 Survey	123	413	5,279	0	162	5,441
District 4 Survey c	427	1,649	92,127	4,720	2,916	99,763
District 5 Survey	355	1,426	10,903	51,674	4,422	66,999
District 5 Permit b	103	534	-	-	-	9,824
District 6 Permit	212	2,269	-	-	-	34,111
Totals	1,955	8,551	110,929	57,191	10,354	222,409

- Continued -

Districts Survey or Permit	Number of Households with Dogs	Number of Dogs	Summer Chum Salmon Fed to Dogs	Fall Chum Salmon Fed to Dogs	Coho Salmon Fed to Dogs	Total Salmon Fed to Dogs	a
1995							
Coastal District Survey	158	596	2,919	214	0	3,133	
District 1 Survey	223	391	531	43	7	581	
District 2 Survey	213	677	1,587	436	979	3,002	
District 3 Survey	111	347	8,450	265	100	8,815	
District 4 Survey	423	1,830	183,386	9,092	1,151	193,629	
District 5 Survey	356	1,442	6,222	50,680	2,107	59,009	
District 5 Permit b	54	495	-	-	-	17,980	
District 6 Permit	103	1,723	-	-	-	50,731	
Totals	1,641	7,501	203,095	60,730	4,344	336,880	
1996							
Coastal District Survey	159	406	0	0	0	0	
District 1 Survey	298	682	1,847	250	38	2,135	
District 2 Survey	251	1,044	1,460	1,724	1,423	4,607	
District 3 Survey	134	513	3,558	0	0	3,558	
District 4 Survey	468	1,607	130,575	5,771	1,324	137,670	
District 5 Survey	325	1,289	10,155	48,836	5,966	64,957	
District 5 Permit b	53	293	-	-	-	14,345	
District 6 Permit	176	1,907	-	-	-	43,590	
Totals	1,864	7,741	147,595	56,581	8,751	270,862	
1997							
Coastal District Survey	174	494	837	0	0	837	
District 1 Survey	255	683	103	0	0	103	
District 2 Survey	301	1,075	779	498	142	1,419	
District 3 Survey	111	492	11,418	400	746	12,564	
District 4 Survey	430	1,209	63,850	4,481	3,141	71,472	
District 5 Survey	254	1,146	2,943	33,188	2,961	39,092	
District 5 Permit b	95	569	-	-	-	19,584	
District 6 Permit	156	1,898	-	-	-	12,813	
Totals	1,776	7,566	79,930	38,567	6,990	157,884	
1998							
Coastal District Survey	185	503	0	0	0	0	
District 1 Survey	259	555	1,711	270	0	1,981	
District 2 Survey	293	966	682	110	137	929	
District 3 Survey	106	394	4,288	32	202	4,522	
District 4 Survey	560	1,731	14,468	3,394	1,935	19,797	
District 5 Survey	356	1,342	2,029	29,448	2,680	34,157	
District 5 Permit b	113	598	-	-	-	1,262	
District 6 Permit	136	1,610	-	-	-	22,311	
Totals	2,008	7,699	23,178	33,254	4,954	84,959	
1999							
Coastal District Survey	163	276	135	0	0	135	
District 1 Survey	252	451	254	20	25	299	
District 2 Survey	312	982	778	52	1,277	2,107	
District 3 Survey	95	374	4,153	50	240	4,443	
District 4 Survey	481	1,502	15,546	3,399	1,513	20,458	
District 5 Survey	273	1,233	1,436	36,006	3,844	41,286	
District 5 Permit b	141	739	-	-	-	11,013	
District 6 Permit	107	1,321	-	-	-	13,256	
Totals	1,824	6,878	22,302	39,527	6,899	92,997	

- Continued -

Districts Survey or Permit	Number of Households with Dogs	Number of Dogs	Summer Chum Salmon Fed to Dogs	Fall Chum Salmon Fed to Dogs	Coho Salmon Fed to Dogs	Total Salmon Fed to Dogs	a
2000							
Coastal District Survey	215	451	0	0	0	0	
District 1 Survey	247	552	1,240	741	0	1,981	
District 2 Survey	307	941	467	30	30	527	
District 3 Survey	111	374	419	150	70	639	
District 4 Survey	441	1,318	4,237	846	329	5,412	
District 5 Survey	236	811	1,263	5,972	1,791	9,026	
District 5 Permit b d	67	568	-	-	-	317	
District 6 Permit d	70	1,327	-	-	-	3,082	
Totals	1,694	6,342	7,626	7,739	2,220	20,984	
2001							
Coastal District Survey	234	495	0	0	0	0	
District 1 Survey	318	609	223	100	0	323	
District 2 Survey	331	926	255	210	80	545	
District 3 Survey	114	610	873	111	25	1,009	
District 4 Survey	553	2,074	4,571	2,014	1,263	7,848	
District 5 Survey	293	1,026	1,649	10,629	5,976	18,254	
District 5 Permit b d	121	583	-	-	-	8,065	
District 6 Permit d	130	1,266	-	-	-	7,506	
Totals	2,094	7,589	7,571	13,064	7,344	43,550	
1996-2000 Average							
Coastal District Survey	179	426	194	0	0	194	
District 1 Survey	262	585	1,031	256	13	1,300	
District 2 Survey	293	1,002	833	483	602	1,918	
District 3 Survey	111	429	4,767	126	252	5,145	
District 4 Survey	476	1,473	45,735	3,578	1,648	50,962	
District 5 Survey	289	1,164	3,565	30,690	3,448	37,704	
District 5 Permit b	94	553	-	-	-	9,304	
District 6 Permit	129	1,613	-	-	-	19,010	
Totals	1,833	7,245	56,126	35,134	5,963	125,537	

a Beginning in 1993, the estimated number of salmon includes those retained from subsistence and commercial (commercial-related) harvests. Dashes indicate information was not collected.

b Permit totals do not include the community of Stevens Village.

c Does not include the villages of Hughes, Allakaket and Alatna which were not surveyed due to a major flood event.

d Does not include duplicate information from households with more than one permit.

Appendix B.11. Surveyed households which indicated that their subsistence salmon needs were not met, Yukon Area, 1992 to 2001.

Year	Total Number of Households Contacted	Total Number of Responses Indicating Needs Were not Met	Percent of Responses Indicating Needs Were not Met	Percent of Responses Indicating Poor Salmon Returns
1992	870	272	31%	7%
1993	979	514	53%	8%
1994	933	345	37%	1%
1995	1,011	207	20%	1%
1996	951	230	24%	6%
1997	915	213	23%	6%
1998	970	593	61%	47%
1999	1,024	385	38%	18%
2000 ^a	932	592	64%	77%
2001	885 ^b	496	56%	73%
Average 1992 to 2000	954	372	39%	19%

^a A different method from prior years was used starting in 2000 to provide an indication of the quality of the salmon runs by species. The new method is a percentage is a weighted average of chinook, summer chum, fall chum, coho salmon responses from households that indicated poor salmon runs by species contributed to not meeting their needs.

^b Total number of people who answered this question, rather than total number contacted.

Appendix B.12. Estimated or reported subsistence and personal use harvest of miscellaneous non-salmon fish species, Yukon Area, 1993 to 2001.

	1993	1994	1995	1996	1997	1998	1999	2000	2001	Five Year Average 1996 to 2000
Survey Estimates ^a										
Whitefish	70,479	84,734	58,660	63,610	77,630	70,261	50,748	45,292	86,200	61,508
Pike	11,787	28,515	17,646	18,833	29,540	22,459	16,928	9,174	16,753	19,387
Sheefish	12,039	17,117	12,186	17,793	19,538	19,159	12,550	6,581	14,384	15,124
Survey Reported										
Burbot	316	9,181	4,602	13,654	6,381	6,704	11,545	2,168	2,836	8,090
Lamprey	2	2,565	5,122	4,630	2,533	2,580	30,536	785	4,520	8,213
Tomcod	2,069	1,875	4,724	4,554	6,088	5,401	2,399	2,999	7,278	4,288
Grayling	122	1,559	1,285	1,664	1,600	1,578	1,476	346	1,503	1,333
Suckers	67	304	210	191	667	128	104	364	277	291
Arctic Char	2	174	265	210	131	206	131	32	251	142
Blackfish	8,810	190,736	233,890	145,752	275,469	302,623	165,252	42,110	85,938	186,241
Permit Reported										
Whitefish	3,139	3,509	3,172	5,474	5,157	4,019	3,734	3,205	2,430	4,318
Pike	1,150	1,214	1,280	2,113	1,978	793	812	687	451	1,277
Sheefish	49	361	87	127	190	137	176	85	75	143
Burbot	66	196	187	105	215	137	101	95	124	131
Grayling	-	3	10	315	154	55	439	521	51	297
Suckers	-	68	456	1,156	858	459	986	739	236	840
Yukon Area Totals										
Whitefish	73,618	88,243	61,832	69,084	82,787	74,280	54,482	48,497	88,630	65,826
Pike	12,937	29,729	18,926	20,946	31,518	23,252	17,740	9,861	17,204	20,663
Sheefish	12,088	17,478	12,273	17,920	19,728	19,296	12,726	6,666	14,459	15,267
Burbot	382	9,377	4,789	13,759	6,596	6,841	11,646	2,263	2,960	8,221
Lamprey	2	2,565	5,122	4,630	2,533	2,580	30,536	785	4,520	8,213
Tomcod	2,069	1,875	4,724	4,554	6,088	5,401	2,399	2,999	7,278	4,288
Grayling	122	1,562	1,295	1,979	1,754	1,633	1,915	867	1,554	1,630
Suckers	67	372	666	1,347	1,525	587	1,090	1,103	513	1,130
Arctic Char	2	174	265	210	131	206	131	32	251	142
Blackfish	8,810	190,736	233,890	145,752	275,469	302,623	165,252	42,110	85,938	186,241

^a Subsistence finfish estimates in surveyed communities is based on a stratified random sample of households as designated for the estimation of subsistence salmon harvests.